



**NOVEMBER 1994**



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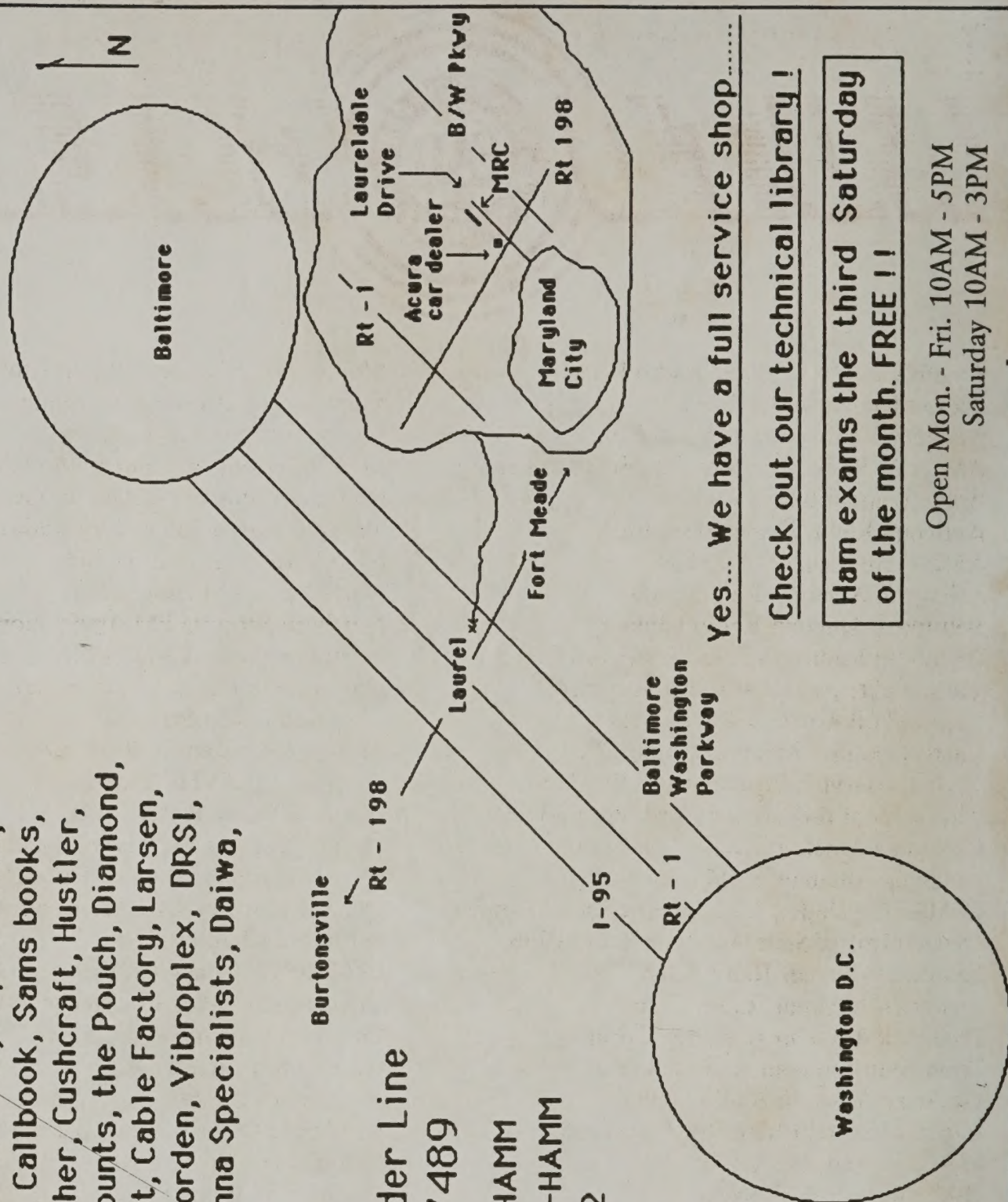
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| AMSAT - Radio Amateur Satellite Corporation  | Mount Vernon Amateur Radio Club             |
| Anne Arundel Radio Club                      | National Capitol DX Association             |
| Antietam Radio Association, Inc.             | Naval Research Laboratory Radio Club        |
| ARINC Amateur Radio Club                     | NOAA Amateur Radio Club                     |
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| Green Mountain Repeater Association          | St. Mary's County Amateur Radio Association |
| Herndon Repeater Group                       | Shenandoah Valley Amateur Radio Club        |
| IBM Amateur Radio Club                       | Southern Maryland Amateur Radio Club        |
| Johns Hopkins University APL ARC             | Southern Patuxent Amateur Radio Club        |
| Laurel Amateur Radio Club                    | Springfield Estates Elementary School-ARC   |
| Leisure World Amateur Radio Club             | Stafford Amateur Radio Assn.                |
| MD/DC MARS (Navy Marine) Association         | Sterling Park Amateur Radio Club            |
| MADRAS                                       | Summit Amateur Radio Association            |
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| Maryland FM Association                      | T-MARC, Middle Atlantic Repeater Council    |
| Maryland Mobileers Amateur Radio Club        | Vienna Wireless Society                     |
| Mercury Amateur Radio Assn., NE Area         | Voice of America Amateur Radio Club         |
| Metropolitan Conununications Network         | Washington Adventist Amateur Radio Assn.    |
| Metrovision Amateur TV Club                  | Washington Area Young Ladies ARC            |
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## AUTO-CALL MAGAZINE STAFF

Editor.....	Doug Allen, N3FHM (410) 437-6258
Circulation Manager.....	John Swafford, W4HU (703) 536-9537

**Deadline for copy is the 5th of the month. All contributions are welcomed, but the editor does reserve the right to edit or reject any portion of any copy.**

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AUTO-CALL is published monthly as the Official Journal of the Foundation for Amateur Radio, Inc. Comments made by columnists do not necessarily reflect the opinions of the Foundation. No effort is made to investigate advertisers, therefore no warranty can be applied.

AUTO-CALL has a paid subscription of over 1,700 and a total circulation of over 2,000. Copies are sold at local stores and a number of complimentary and swap copies are mailed each month. The magazine is entered as third class nonprofit matter at the Post Office at Arlington, VA.

Subscription Rate is \$8 per year.

Subscriptions received after the 15th of the month will begin with the following month's Issue.

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## COMING EVENTS

Oct. 30

Mason-Dixon, Westminster, MD

1995

Jan. 29

Maryland Mobileers Swapfest, Odenton, MD

# WE NEED YOUR HELP!

Auto-Call Magazine need your input for our Coming Events Page.  
Please send your Coming Event Information To:

Auto-Call Magazine  
8008 Shadow Oak Lane  
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### FOUNDATION MEETING

The Foundation for Amateur Radio, Inc. meets at 8: p.m. on the second Wednesday of each month.

**Visitors are always welcome**

The next meeting will be held November 9 at the  
Lee Center, Alexandria, Virginia

Take Capitol Beltway to Exit 1 (US 1 North)

North to the second traffic light, Left on Gibbon Street to  
Fayette. Left on Fayette to dead end at Lee Center Parking Lot.

Talk-In on 146.55



## THE NEW GENERATION ROTATORS

### THEY'RE NOT YOUR FATHER'S HAM "M"

Rotator Comparison Chart

	The New Generation									Old Generation	
Model/Specs	Create RCS	Create RC5A	Create RC5B	Emoto 105TSX	Emoto 747SRX	Emoto 1105MSX	Emoto 1200FOX	Emoto 1300MSAX	Emoto 1800FSX	Telex Ham IV	Telex TX2
Rotate Torque Ft/Lb	43	116	160	37	50	57	143	215	287	67	83
GD <sup>2</sup> KgM <sup>2</sup> Ant. Inertia	N/A	N/A	N/A	100	400	700	1000	1800	3000	N/A	N/A
Brk. Static Torque Ft/Lb	506	1085	1450	215	502	717	1290	1792	2150	417	750
Wind Load in Tower (ft)	10	25	25	11	22	27	27	33	36	15	20
Mast mount	4	5	7	5	9	12	12	15	16	7.5	10
Rotating speed 360°	60-150 sec variable	60-150 sec variable	60-150 sec variable	55	35	65	40	77	80	60	60
Rev. Delay	None	2 sec	3 sec							None	None
Preset	Oct 3	Oct 3	yes	no	no	Oct	yes	yes	yes	no	no
Computer	no	no	no	no	yes	yes	yes	yes	yes	no	no
Power 120V 60Hz	80VA	140VA	200VA	70VA	70VA	70VA	90VA	120VA	150VA	26V AC	26V AC
Mast Dia	2-2.5 in	2-2.5 in	2-2.5 in	2-2.4 in	2-2.4 in	2-2.4 in	1.6-2.4 in	2.4-3.1 in	3.5-5.5 in	2 in	2 in
Controls wire	7 cond	7 cond	7 cond	7 cond	7 cond	7 cond	7 cond	7 cond	7 cond	8 cond	8 cond
Vertical max load #	880	1540	1540	860	1100	880	1760	1760	2200	400	800
Motor size	13	17	20	7.5	9	11	11	13	39.5	24	28
Brake type	worm drive	worm drive	worm drive	disk	friction	friction	friction	friction	friction	wedge	wedge
Self center mast clamp	yes	yes	yes	Adj	Adj	Adj	Adj	Adj	Adj	no	no
Special notes	3-6	3-6	3-6	6	1-6	6	2-6	6	6	4-7	4-7
Pricing (\$)	\$269.00	\$449.95	\$799.00	\$209.95	\$399.00	\$589.00	\$679.00	\$1099.00	\$3272.00	\$369.95	\$439.95
With Preset	\$379.00	\$528.95				\$663.00					

**Notes**

1 Turns Tribander 470° in 35 seconds

4 TX2 and Ham IV have same motor and gear train parts

5 120V nominal 220V special order

2 Variable speed 40 sec max

5 EEB prices as of 5/91 sub to change

6 Wind Load in Sq. Feet

3 Variable speed w/SCR constant rotational torque at any speed

6 120/220 tapped transformer

### THE NEW GENERATION

An entire generation of amateurs have grown up knowing only one rotator manufacturer. Those old favorites are still popular. But, now a new generation of rotators are out to set high standards with innovative features such as: large machined steel gears, cast and machined aluminum cases, solid state controllers for smooth start/stop, preset, computer control and circular position indicators.

The bottom line is... strong, long term reliability, ease of operation and cost effectiveness. When you erect an antenna system the last thing you need is rotor problems!

### CREATIVE DESIGN ROTATORS

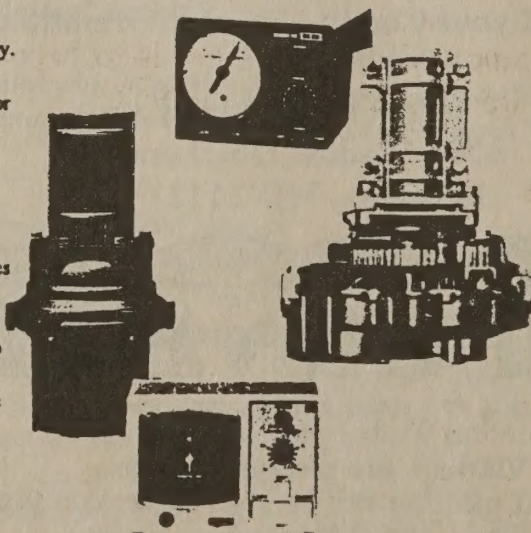
CREATE is serious about long term reliability. The CREATE RCS series rotators were designed with the serious DX'er in mind. Three models for medium, large and ultra large antenna arrays are available.

### ROTOR FEATURES OF RCS SERIES

\* Large strong reduction gear system provides long term reliability during years of rugged operation. \* Worm drive gearing provides powerful braking force and low backlash to keep your antenna in position during severe weather conditions. \* Cast and machined aluminum case provide the strength required for long lasting service. \* Mast clamp guides for ease of mast installation.

### CONTROLLER FEATURES OF RC5 SERIES

\* Speed control using silicon control rectifiers allows slow speed without reduction in rotation torque. Rotating spec is constant 60 to 200 seconds per 360 degrees. \* Reverse delay control (RDC). Delays reverse command to rotor until antenna is at rest. Prevents damage to rotor antenna and tower system. \* Circular dial indicator, for quick accurate reading of antenna direction. Great circle overlay available for USA (west-cent-east). \* Preset (on 3 models) a must for quick setting of antenna direction. Just turn the knob to the new heading, the rest is automatic. Won't waste your time holding down the brake lever and wait.



### EMOTO ROTATORS

More than 60% of all Japan amateurs use EMOTO rotators. Many unique innovations and international patents have made EMOTO number one.

EMOTO has a fool proof method to calculate which of their rotators will satisfy your needs. This GD<sup>2</sup> formula considers your antenna (s) weight, boom and longest element length. The EMOTO sheet is in metric so one must convert weight 2.2lbs=1kg and length in meters 3.3ft=1 meter. Calculate your GD<sup>2</sup> then compare EMOTO GD<sup>2</sup> spec above.

$$GD^2 = W \times \frac{L^2 + B^2}{12}$$

Where: W: weight of antenna (kg)  
L: length of longest element (m)  
B: length of boom(m)

#### GD<sup>2</sup> EXAMPLES: Kgm<sup>2</sup>

TH7DX (437), TH3JR (63), 205BA (675), DISC7-3 (1300), A3S (61), A4S (173), KLM KT34XA (378), 3 ELE TRIBAND (150), 6 ELE TRIBAND (400), 20M 5 ELE (750), 15M 6 ELE (650), 40M 2 ELE SHORT BOOM (240), 40M 2 ELE FULL BOOM (800), 80M 2 ELE (1500), STACK ARRAYS 10M 5 ELE (60), 15M 5 ELE (200), 20M 5 ELE (750), 60+200+750=1010

EMOTO also has a robust AZ-EL rotator that has computer I/O ports. For those working satellites or EME moon bounce the EV700D5X should do the job, as rotating torque is more than double the YAESU G5400B AZ-EL.



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# FCC HIGHLIGHTS

By Jack Kelleher, W4ZC

## STATUS OF RULEMAKING

We sorted our mail after having been out of town attending the QCWA Board meeting and the QCWA Convention, and found that the October 1 issue of W5YI Report has an excellent report on the status of FCC Rulemaking, gleaned from conversations with various FCC staff members. The following items are excerpts from or quotes from this material.

### Vanity Call Signs

This proceeding has now gone through all of the preliminary steps — Notice, Comments and Reply Comments — and is now ready for Commission action; which is expected sometime this fall. It is anticipated that a vanity call sign program will be adopted; but the details on implementation are not yet known.

### Immediate Temporary Operating Authority

In October 1993 the FCC adopted a Notice of Proposed Rulemaking (PR Docket 93-267; RM-8288) proposing to amend the Amateur Service Rules to extend temporary operating authority to new amateur operators. The Notice elicited considerable comment, both for and against the proposal, and no final action has been taken.

At the 1994 VEC Conference Private Radio Bureau Chief Ralph Haller mentioned that officially, the proposal is still under consideration, but that instant temporary licensing may not be necessary, since the VECs and the FCC are in the process of implementing the electronic filing of FCC Form 610 applications. Under this program the VECs will prepare the application information in PC format and transmit the data to the FCC licensing facility in Gettysburg. According to Haller "the speed of service will be in hours instead of weeks, . . . we hope to send out the license the same day".

(NOTE: As we previously reported, Ralph Haller is to become Deputy Chief of the new and larger Wireless Telecommunications Bureau of the FCC).

### Electronic Filing of Applications

Apropos of the preceding item, the FCC has forwarded the input software needed to key in FCC Form 610 amateur radio operator applications to both the ARRL-VEC and the W5YI-VEC. This computer program is currently being tested and the bugs worked out. It is anticipated that the initial phases of electronic filing will get under way shortly.

According to the W5YI Report "The FCC is also in the process of entering into formal Memorandums of Understanding with the VECs so that they may provide the service to the Government. Basically, electronic filing involves the keying in of two files (the examination session report data and the information contained on the FCC Form 610 application) using special software and then transmitting the files to Gettysburg. The FCC's data base is then updated and the license granted.



At first, however, both the actual (paper copy) applications and a computer disk containing the files will be mailed to Gettysburg. Even this first step should greatly reduce the time taken by Gettysburg to issue an amateur radio operator license. Since the data is already key stroked, it will get handled immediately. (Ed. note: This stage will not be reached until the "pilot program" with each VEC has been completed.

Eventually the VECs will only transmit the needed application information to Gettysburg and will retain (and archive) the FCC Form 610 applications they receive from their VE teams. The law that used to require an original handwritten signature on the application has been changed. The FCC can now grant a license without seeing the applicant's signature. The VECs must certify, however, that they have seen the signature. (This is part of the computer input procedure). Still to be resolved is how the VECs will get the data to Gettysburg; the exact data transfer system has not yet been nailed down".

Ralph Haller told the VECs that the FCC might even be able to eliminate the need for an applicant to have the actual license document in hand before beginning operation. The applicant could access a bulletin board which would indicate that their license and call sign has been issued.

### **Lifetime Amateur Radio Licenses**

This proposal from the American Radio Relay League suggests that the operator portion of the amateur radio license be recognized for the lifetime of the holder. Current licensees would have their operator licenses extended to lifetime. The station license portion would continue to carry a ten year term. In addition, amateurs whose operator license had already lapsed (on or after a date to be determined by the FCC) would be permitted to regain their previous operator privileges. A big advantage to applicants who let their license expire is they would not have to be retested in order to reapply for their license. They would, however, receive a new call sign two years after their previous station license expired. (i.e., the current ten-year callsign limit, plus a two year grace period, would not be changed)

The FCC has not yet decided whether to issue a Notice of Proposed Rule Making on this matter.

### **FCC "Customer Service".**

As part of its overall plan to improve customer service the FCC has a toll-free number which may be used to contact its Gettysburg, PA licensing division. The Customer Assistance Branch may be reached at 1-800-322-1117 during regular business days (Monday through Friday) between 8:00 a.m. and 4:30 p.m. eastern time.

The FCC also said, in a September 20th Public Notice, that "Within the next 18 months customer service standards will be developed for other areas of Commission Operations to ensure FCC customers receive the highest quality of service possible. As these new standards become available the FCC will inform its customers".



## Code Exemption Denied for Senior Citizens

In May 1994 Guy A. Matzinger, KB7PNQ of Cheney, Washington filed a petition with the FCC (RM-8485) seeking relief from the higher speed Morse code requirements for senior citizens. Matzinger, who is a 68-year-old Technician Class licensee, requests that applicants for the higher classes of amateur operator licenses who are 65 years of age and older be granted an exemption, if requested, from demonstrating telegraphy proficiency at speeds greater than 5 words per minute.

FCC Regulation 97.505(a)(5) provides for 20 wpm code examination credit when an examinee has a severe disability which precludes the person from passing either a 13 or 20 wpm telegraphy examination. Matzinger's petition seeks to equate senior citizens with persons who are so severely disabled that they are unable to pass these higher speed Morse code examinations. The petition also states that, although there are exceptions, the average person's faculties are diminished by the aging process.

Matzinger believes that the amateur service community now supports the change he requests. To support his contention, he supplied the results of a poll of amateur operators which he conducted showing that 63 percent of those surveyed support an exemption while 37 percent are opposed. His petition provides an age profile of the amateur operators that were surveyed but there is no indication in the petition as to the number of persons participating in the survey. Although a public notice of the filing of the petition was given, no comments were filed.

The FCC said that Mr. Matzinger correctly notes that similar petitions have been rejected on the basis that the current operator license classes, requirements, and privileges were developed in accordance with the desires of the amateur service community who expressed their views in various rule making proceedings by filing thousands of comments. "The current operator license classes, requirements, and privileges provide motivation to amateur operators to advance their communication and technical skills" FCC added.

"In addition to the foregoing, we do not accept the premise of the petition that aging, in itself, is a severe disability. The Rules, moreover, already provide the accommodation the petition requests for persons of all ages who are so severely disabled that they cannot pass a higher speed telegraphy examination".

"RM-8485 seeks to reverse a long-standing Commission policy regarding the requirements that applicants must meet in order to obtain a General, Advanced, or Amateur Extra operator license. It presents neither new facts nor novel arguments that would justify such a policy change at this time". The FCC denied Matzinger's request on September 16, 1994.

## Good Neighbors

All frequency bands above 225 MHz which are allocated to the Amateur and/or Amateur Satellite Service are allocated on a secondary, non-interference basis to those Services which have primary allocations in these bands. In most cases these bands are allocated primarily for Government use, and these primary users have been tolerant and cooperative in sharing their frequen-



cies with us. In recent months we have commented on potential sharing problems resulting from the mandated transfer of some of these frequencies from Government use to private sector use, and the additional sharing problems which may result if and when the new private-sector users have to pay for these frequencies. In this context, we repeat below parts of an item in the W5YI Report for September 15th, entitled

### **Finding Good Neighbors — Ensuring Amateur Access to the 2390 - 2400 MHz Band.**

In response to a Congressional mandate to make spectrum available to new wireless technologies, the U. S. Government, on August 10, 1994, gave up their primary allocations in many of the bands in which hams can operate on a secondary basis. This has important implications for continuing ham operations in the 13 cm. band, which spans 70 MHz of coveted spectrum from 2300 - 2310 MHz, and 2390 - 2450 MHz.

Today, a few parties have already presented the FCC with plans for occupying a 10 MHz sliver of this band running from 2390 to 2400 MHz. (The ARRL band plan has allocated these frequencies for fast scan TV, high-rate data, packet, control and auxiliary links).

The FCC is under Congressional constraints that require the government to avoid excessive disruption of existing use of federal government frequencies by amateur radio licensees. The FCC must also consider the extent to which commercial users could share the frequency band with amateur radio licensees.

Many of the commercial uses proposed for this band can not co-exist with the Amateur Service. Moreover, some proponents have explicitly asked that the FCC entirely bar amateur operations in this band.

Southwestern Bell has proposed establishment of a Wireless Local Loop Service in this band, but admits that an essential prerequisite would be to bar amateur operations.

A partnership between Loral and Qualcomm expressed a preliminary view that the band is useful for Mobile Satellite Service uplinks, but did not say that this use would be compatible with amateur operations.

Similarly, the Coalition of Private users of Emerging Technologies asked that the band be allocated to a two-way private mobile service, but did not disclose the impact of doing so on the Amateur Service, since it knows that a two-way mobile service is flatly incompatible with co-channel amateur use.

The most promising proposal for continued amateur operation appears to be the one submitted recently by In-flight Phone Corporation (IFPC), a major provider of in-flight telephone, information and entertainment services. IFPC is proposing to construct an airborne audio/videos system (AAVS) which will transmit real-time television and audio programming to aircraft, where it would be displayed to passengers on seat-back video monitors. Transmission would be directly from the ground to aircraft, with a network of about 70 terrestrial stations providing full national coverage.



IFPC maintains that its system is compatible with low power, point-to-point amateur operations in this band, and has stated to the FCC that it will work in good faith with the amateur community to develop a band-sharing arrangement that is acceptable to amateurs. No other telecommunications company, thus far, has taken that same position.,

Just as AAVS is not expected to preclude amateurs from the band, under normal conditions, amateur operation is not expected to cause a significant amount of interference to reception of AAVS signals aboard commercial aircraft, since amateur operations in this band are typically made using a low power transmitter and a high gain directional antenna with a narrow beamwidth.

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## AMERICAN RADIO RELAY LEAGUE REPORT

by John Swafford, W4HU

*This ARRL Report provides a brief summary of information published in the ARRL LETTER and other reports. The LETTER provides timely news of interest to active Radio Amateurs. Any League member may subscribe to the ARRL LETTER.*

### **Space Center Hams Mark Apollo Landing** by Mike Hadley, KC4TCV, and Eric Smitt, K9ES

The July 1969 broadcast to the world from Neil Armstrong that he had just set foot on the moon has to rate among the most famous radio transmissions of all time. To celebrate the 25th anniversary of that event, more than 3250 Amateur Radio operators from all over the globe sent their own transmissions to the Kennedy Space Center (KSC) in July 1994. In addition to KSC, this special event was supported by Amateur Radio clubs and groups at 12 other NASA centers.

At KSC, from July 19 to 22, 40 Amateur Radio operators, organized by Mike Hadley of Lockheed Space Operations Company, and representing more than 20 different companies and organizations from NASA, the Air Force, and their contractors at KSC and the Cape Canaveral Air Station, provided those contacts. The KSC special event radio station used Mike's amateur call sign -- KC4TCV -- for all bands and modes except CW, where Tom Nguyen, of NASA, provided his call sign -- AD4NA. The total contacts of all of the combined NASA facilities is still being counted, but preliminary estimates are over 15,000.

#### **On Their Own Time**

The KSC station operators managed to provide radio contacts to hams in 49 states and more than 40 DX countries during this 60-hour operation. This effort represented many hours of donated vacation and personal time during the planning, preparation, and operating of the station. A call was even received from the Queen Mary, in Long Beach, California!

This Apollo 11 commemoration was announced worldwide in all the major Amateur Radio periodicals, via amateur packet radio, over satellites, and on the Internet. The benefits of all the preplanning were well recognized as soon as operations began. It seemed as if the entire world was standing by waiting for KSC to come on the air, and it was only a matter of hours before the operators had to start exchanging positions with the loggers for fear of losing their voices.

Thanks to the KSC Technical Learning Center, laptop computers were provided for all of the operating positions, to allow electronic logging of the contacts; Yaesu was kind enough to provide proper log books for manual logging.

Several stations that called in had their children, some as young as six, speak to us, so that they could say they talked to the "Kennedy Space Center." A High School club in Texas had members lined up to contact us, while others, many from Canada and overseas, told us about their visits to KSC. We were excited to hear the enthusiasm and admiration that many people still have for the workers and the space shuttle program at KSC.



## Certificates in Demand

Within days of the start of the operation, the special NASA mailbox reserved for this occasion was overflowing with mail -- with requests for the specially designed commemorative certificate used to confirm their contact with the Kennedy Space Center station. More than 800 pieces of mail were received within the first week after the event. This mountain of mail continues to remind us that operating the special event station was only the beginning of our public relations effort.

We at KSC (and operators at most of the other NASA facilities) brought in our own personal radio equipment. At KSC, we set up the stations and antennas the weekend before the event, and took everything down the following weekend. By the following Sunday, there was little evidence that anything had taken place at the site! In addition to our HF setups, we had two packet stations, one for general packet operation and the other for connection to the Florida DX PacketCluster, as well as a 2-

meter FM station to give locals a chance to contact KSC. One interesting contact on the 2-meter FM station was from an English tourist who was on a tour bus passing by the Launch Control Center and saw our antennas. When he arrived back at the Visitor Information Center, he immediately went out to his car and tuned around on his VHF radio until he located us and called in. He was very excited and happy to have been able to make the contact.

The station location was in the middle of the Launch Complex 39 Press Site, the site of the launching of Apollo 11, and the current site of launching of the space shuttle. The KSC base operations contractor provided a triple-wide trailer used for fire rescue training, as the facility for the station site. This trailer is located approximately 1000 feet southeast of the huge Vehicle Assembly Building (VAB) and Launch Control Center and directly next to the turning basin dock, where the external tank for the space shuttle is received by barge from Louisiana, and off-loaded and transferred to the VAB. To the east are Launch Pads 39A and 39B, and to the southwest is the LC-39 Press Site Facility.

To allow all three HF stations to operate on the air at the same time was the responsibility of the antenna chairman, Eric Smitt (K9ES), who selected two small triband yagis provided by the Platinum Coast Amateur Radio Society, a rotatable dipole for the "new bands" and three verticals provided by GAP. The antennas were well spaced, covering an area the size of a football field. NASA and McDonnell Douglas assisted by providing trailer-mounted towers for the beams. Space Coast REACT members provided a third tower trailer that held an AOP-1 satellite antenna array.

Our special event certificates will be ready for mailing soon and we apologize for the delay. Those who contacted the special event stations are reminded that this was not a government-sponsored activity and that all costs have to be covered by the operators themselves, including printing of the certificates.

## LEAGUE REPLIES TO WRC-95 PREPARATORY COMMENTS

The ARRL has commented on an FCC Notice of Inquiry in preparation for the next International Telecommunication Union World Radio Conference, scheduled for November 1995, in IC Docket 94-31. (The League's comments were filed July 15, 1994.)



The League urged that any consideration of realignment of the 7-MHz band (see lead story) be held until the WRC scheduled for 2001, to give fixed and mobile services time to relocate to higher frequencies. The ARRL had earlier suggested that the issue be considered in 1999 but has now moved that back two years.

A WARC-92 proposal (the last "WARC") to realign the band to the benefit of both broadcasters and amateurs was not adopted.

In the matter of the 2300-MHz band, the League said that the directive in the 1994 US Omnibus Budget Reconciliation Act that protects amateurs means that an international allocation for the Mobile Satellite Service at 2300 to 2310 or 2390 to 2420 MHz should not be considered.

Finally, the League said again that a future agenda item should be an "International Amateur Radio Permit." Such an "automatic reciprocal" permit is already available among the countries of the European Conference of Postal and Telecommunications Administrations (CEPT), and the International Amateur Radio Union (IARU) has been promoting such an agreement among its members in ITU Region 2 (South and North America).

### **HPM-125 CELEBRATION A ROUSING SUCCESS!**

The 10-day Hiram Percy Maxim 125th Birthday Memorial Celebration appears to have been an overwhelming success. It has just ended as this is written, but many participants are reporting contact totals in the thousands, despite incredibly rotten HF propagation. Both 10 and 15 meters were practically useless, there was very little activity on the "new" bands, and the lower frequencies suffered outrageous storm static over much of the US.

Despite this, pileups on "/125" stations were deep, on both voice modes and on CW. Perhaps most surprising (at least to this writer) was that few people asked what "/125" meant, at least on the CW bands

The "contest community" is abuzz over this event and is wondering how all those casual operators who showed up can be encouraged to participate in the November Sweepstakes and other regular contests. Some believe the length (10 days) encouraged more and more "casuals" to operate as time went on; some think the two-page QST announcement written in "plain English" helped; others believe the basic certificate for working just 25 of the /125 stations helped. Time will tell.

The highest contact total we have heard so far is 5125! That by Dave Hachadorian, K6LL/7, an Official Relay Station in Arizona, who reports 3802 QSOs on SSB and 1323 on CW, including 470 with /125. Way to go, Dave!

During a special operation the first weekend of the activity, a number of HQ staff members and visitors cranked out about 3,000 contacts from W1AW/125.

The Membership Services Department is going to be very busy issuing the handsome certificates for this operating event.



## VE3ONT ADDS 50 MHZ TO EME CONTEST PLAN

The Toronto VHF Society (VE3ONT) has added 50 MHz to the list of bands it will operate in the ARRL EME Contest held at the end of October and again in November.

VE3ONT will use the 46-m (150-ft) dish operated by the Institute for Space and Terrestrial Science at Algonquin Park, Ontario. On 50 MHz, the antenna will be linearly polarized, and output power will be 1 kW.

Calculations show that 50-MHz stations with yagis as small as 6-elements or so and 1 kW should be able to work VE3ONT off the Moon; smaller stations are urged to try as well.

Use of the dish at the Algonquin Space Complex is always subject to last minute preemption for non-amateur purposes.

### BRIEFS

The ARRL Program for the Disabled is seeking write-ups by and about disabled amateurs for use in materials (including QST) of interest to all hams. If you'd like to share your own story, or have experience helping disabled hams, we'd like to hear from you. Stories that emphasize the use of computer technology, adaptive/assistive devices, obstacles overcome, and practical solutions to everyday problems are of particular interest. Photos are also welcome. For more information, contact Mary E. Carcia, N7IAL, at HQ, or write to the ARRL Program for the Disabled, 225 Main Street, Newington, CT 06111.

The ARRL Foundation has established The ARRL Program for the Disabled Fund, to raise funds for the development of educational and informational materials for disabled licensed or prospective hams. Your contribution can help make popular ARRL publications available in forms most useful to disabled hams and their instructors. You can help our disabled friends by sending your (tax-deductible) contribution to: The ARRL Foundation, "The ARRL Program for the Disabled Fund," 225 Main Street, Newington, CT 06111.

The space shuttle scheduled for launch October 27 will include a scientific experiment to investigate why astronauts develop symptoms of osteoporosis on long flights. The technician in charge of this project is Delina Stiner, N2MIA, as associate in research at the Hospital for Special Surgery in New York.

Congratulations to Dan Gautschi, HB9CRQ, recipient of the fifth 2-meter DXCC award. 31-year old Dan uses an array of eight 19-element yagis and an 8877 amplifier but says he can work stations "down to one yagi and a couple hundred watts."



## WHAT IS SOLAR FLUX?

By Paul Wilkins, AB4CY

The Sun is the nearest star and is some ninety three million miles away. Its surface temperature is around six-thousand degrees C., and a 100lb. Earthling transported there would find itself weighing over one and a half tons. The Sun is a nuclear reactor using fusion to produce prodigious amounts of energy. Radiation emanating from the surface of the sun travelling 186,000 miles per second takes a little more than eight minutes to reach the earth.

Radiation from the sun creates the earth's ionosphere by changing neutral atoms in the upper atmosphere (50 to 150 miles high) into ions which form a semi-conducting and refracting (bending) media that makes short wave communication possible. The famed Ozone layer is formed when solar ultra-violet radiation causes oxygen molecules O<sub>2</sub> to form a more energetic molecule O<sub>3</sub> (Ozone).

Solar radiation is in a constant state of change. The most obvious reason is the appearance of sunspots which seem to be some sort of magnetic storm on the sun's surface. Sun spots tend to appear in clusters and a quarter of them only last a day, another quarter for up to four days, and some have been known to last 18 months. Long lasting spots re-appear every week as the sun rotates with a period of around two weeks bringing them back into view after a week on the far side. Sunspots range in diameter from 150 miles to onehundred fifty thousand miles (almost 20,000 earth diameters), and for an unknown reason seem to go through an eleven year cycle in number. The greater the number of spots the more dense the ionosphere and the better long distance HF communications becomes. Since the number of sunspots is highly variable, a "smoothed" sun spot number is used to represent the state of the sun's surface. During the peak of the sun spot years bands like ten and fifteen are open the greater portion of the day. During the sun spot low years these bands are rarely open.

Occasionally there are eruptions from the sun's surface known as solar flares. These sometimes stretch from the sun to nearly a million miles into space. When flares occur, energetic particles as well as radiation are emitted causing magnetic storms here on earth. In the days before telephone cables instead of wires these storms could effectively shut down long distance telephone circuits. They also cause an increase the ionization of the D layer which can then absorb anything but the very lowest frequencies causing an effective HF blackout.

To characterize the state of the sun's radiation the "solar flux" which is a term meaning the flow of energy from the sun is monitored throughout the day. The ground level noise amplitude at 2800 MHz is a good measure of the ionization of the F layers in the ionosphere due to the solar flux and indicates the MUF (maximum useable frequency). The measurements are transmitted periodically by WWV to alert commercial users of HF about existing conditions.

The state of the ionosphere above any one point on the earth depends on a number of factors. The time of year (in the winter the earth is nearer the sun than it is in the summer), time of day (if the sun sets the ionosphere gradually dissipates until sunup the following morning regenerates it), the intensity of the flux (sunspot number) and any magnetic disturbances. The Aurora Borealis is the result of strong particle streams from the sun impacting the gasses in the ionosphere and causing them to glow like a neon sign. Particles travel much slower than radiation and may take many hours and even days to reach the earth. Sometimes sporadic E propagation is a result of particle bombardment. The particles are deflected by the earth's magnetic field which is why the Auroras are centered near the magnetic poles.

QST publishes charts of the MUF for various transmission paths versus time of day for the current month. A quick look at these charts once you understand them will tell you whether you have much of a chance for establishing a contact on a given band that depends on the ionospheric condition.



## DXCC ANNOUNCES P5RS7

In response to continued questions concerning the P5RS7 operation of December 1992 - January 1993, the following is provided:

While reviewing the original documentation and photographs, DXCC staff noted some apparent discrepancies. DXCC staff then requested some additional information. After more than one year, additional information was received.

During that year, the ongoing investigation into the paperwork and photographs suggested that the operation may have taken place from another location. Documentation in support of P5RS7 accreditation did not establish that operating permission had been granted by appropriate authorities, nor did it establish that the operation took place from the territory of North Korea.

After reviewing all available information, there will be no DXCC credit for the P5RS7 operation and the file has been closed. This determination is based upon Section I, 7 and 12 of the DXCC rules.

### UPCOMING DX CONTESTS

HA QRP Contest CW only	November 1-7
Ukrainian DX Contest	November 5-7
OK/OM DX Contest	November 12-13
European DX Contest, RTTY	November 12-13
CQ WW DX CW Contest	November 26-27

### UPCOMING DXPEDITIONS

St. Lucia	J6	October 23 - November 4
Antigua	V29Y	October 26 - November 2
Belau	KC6SS-OK	October 25 - November 2
Ghana	9G5	October 24 - November 4
Micronesia	V7X	November 2-7
St. Kitts	V47NF-WZ	November 19-25
St. Marten	PJ7/WB8GEX	November 25-27

### TIDBITS

Roger Western, G3SXW operated from Tristan da Cunha Island in October 1993, making 23,300 CW contacts on a one man DXpedition. His professionally produced 12 minute video shows the journey, the island and operating the pile-ups from the DX end. It is now available in the USA, at cost. Please send a check for \$14.95 to Jack Reed, WA7LNW, 16423 North 54th Avenue, Glendale, AZ 85306. I saw Roger's Video at the ARRL National Convention and it is very well done. It would make a nice program for any radio club.

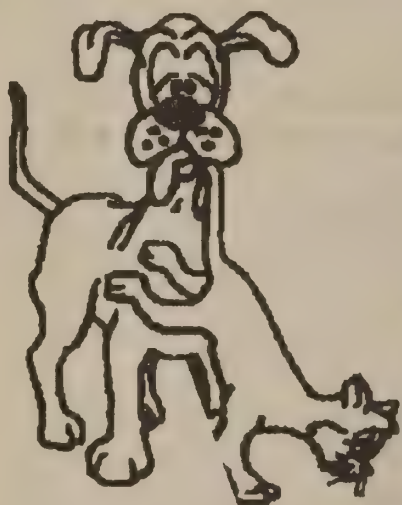


The New England DXCC Dinner will be held on Sunday, November 13, at the VFW Post 2017, 84 Eastern Ave., Dedham, MA. Contact Tony, WA1MWN for information telephone (617) 334-5770.

I2RAO's operation from Malpelo Island will not be accepted for DXCC credit for several reasons. He was on the island during his brief operation but his documentation did not include satisfactory proof that he had landing permission and his license was rescinded by Columbian officials shortly after his operation began.

**VE0MBJ/MM is operating from an icebreaker enroute to the North Pole.**

The Mellish Reef - A Chat with Ken, V73C at the recent Huntsville Hamfest indicated that lots of DXers are still missing cards from VK9MM. It turns out that VK4CRR owes these guys, the NCDXF and the manufacturers a lot of money and gear.. and lots of DXers QSL Cards. Plainly, he has pocketed the money. According to Ken, he and WA4DAN are tired of defending this guy at hamfests and want to do something to right this situation. They both have copies of the logs and Ken and Murry will fix it, even if they have to print cards at their own expense. This has been done and I being one who never got any QSL's from this VK4CRR, I sent to WA4DAN and got my VK9MM QSL cards. Many thanks to Murry and Ken for fixing this bad situation. I think that any involvement with VK4CRR should be avoided.



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FOUNDATION FOR AMATEUR RADIO  
VOLUNTEER EXAMINER COOPERATIVE

JOHN FORREST WZ4A  
6111 BURNETT ST.  
ALEXANDRIA, VA, 22310  
(703)971-3905

NOTICES:

\* EFFECTIVE JULY 1, 1994, THE GENERAL CLASS WRITTEN EXAM QUESTION POOL (ELEMENT 3B) WILL CHANGE. EXAMS ADMINISTERED AFTER THAT DATE MUST USE THE NEW QUESTION POOL. BE SURE TO USE STUDY MATERIALS APPROPRIATE FOR THE QUESTION POOL IN USE.

ATTENTION VE'S: IT'S TIME TO START SCHEDULING YOUR 1995 EXAMS. 1995 EXAM DATES ARE NOW APPEARING IN THIS COLUMN. ALSO, COPIES OF THE 1995 AUTOCALL EXAM SCHEDULE WILL BE DISTRIBUTED TO LOCAL HAM RADIO STORES AROUND THE MIDDLE OF DECEMBER. PLEASE SEND YOUR 1995 EXAM SCHEDULE TO WZ4A AS SOON AS POSSIBLE.

SCHEDULE OF EXAMINATIONS

1994

NOVEMBER 5, 1994 (SATURDAY)

STERLING, VA - HERNDON REPEATER GROUP (ARRL VEC) WALK-IN  
CONTACT: MIKE WEBER WB8RDN (703)450-2304 BETWEEN 7-9 PM

PORTSMOUTH, VA - PORTSMOUTH ARC (ARRL VEC)  
PRE-REGISTRATION DESIRABLE  
CONTACT: ART THIEMENS AA4AT (804)484-2857

NOVEMBER 6, 1994 (SUNDAY)

LANDOVER, MD - D.C.M. ARC (ARRL VEC) WALK-IN  
CONTACT: FREDDIE BATTLE NG3G (202)546-9348 (DAY)  
(301)773-2898 (EVENING)

ELKINS, WVA (MOUNT. ARC VEC) WALK-IN  
CONTACT: (304)637-0506

NOVEMBER 12, 1994 (SATURDAY)

DAVIDSONVILLE, MD - ANNE ARUNDEL RADIO CLUB (LAUREL VEC)  
WALK-IN  
CONTACT: NANCY ALLEY NT3Z (410)761-7115  
BOB ISRAEL WC3I (301)262-5083



NOVEMBER 12, 1994 (SATURDAY)

ALEXANDRIA, VA - MT. VERNON ARC (LAUREL VEC) WALK-IN  
CONTACT: FRANK MACKEY N4GUS (703)455-1510

CULPEPER, VA (ARRL VEC) PRE-REGISTRATION PREFERRED  
CONTACT: BILL BROWN AC4KP (703)547-3089  
GARY W0QDP (703)854-6187

NOVEMBER 18, 1994 (FRIDAY)

THE PENTAGON, ARLINGTON, VA - PENTAGON ARC (ARRL VEC)  
PRE-REGISTRATION ENCOURAGED  
CONTACT: JIM FOX KE4EID (703)756-8994 (WORK)  
(703)931-6523 (EVENING)

NOVEMBER 19, 1994 (SATURDAY)

LAUREL, MD - LAUREL ARC (LAUREL VEC)  
PRE-REGISTRATION DESIRABLE  
CONTACT: JOHN CREEL WB3GXW (301)572-5124 AFTER 6 PM

MANASSAS, VA - OLE VIRGINIA HAMS ARC (ARRL VEC)  
CONTACT: HARRY VORHAUER W4PVA (703)368-6050

NOVEMBER 23, 1994 (WEDNESDAY)

GLEN BURNIE, MD - MARYLAND MOBILEERS ARC (LAUREL VEC)  
PRE-REGISTRATION REQUESTED - LIMITED WALK-INS  
CONTACT: JERRY GAVIN NU3D (410)761-1423

DECEMBER 3, 1994 (SATURDAY)

VIRGINIA BEACH, VA - VA BEACH ARC (ARRL VEC)  
PRE-REGISTRATION DESIRABLE  
CONTACT: JUDY ROGERS KD4JMA (804)468-9166

DECEMBER 4, 1994 (SUNDAY)

LANDOVER, MD - D.C.M. ARC (W5YI VEC) WALK-IN  
CONTACT: FREDDIE BATTLE NG3G (202)546-9348 (DAY)  
(301)773-2898 (EVENING)



DECEMBER 10, 1994 (SATURDAY)

DAVIDSONVILLE, MD - ANNE ARUNDEL RADIO CLUB (LAUREL VEC)  
WALK-IN

CONTACT: NANCY ALLEY NT3Z (410)761-7115  
BOB ISRAEL WC3I (301)262-5083

ALEXANDRIA, VA - MT. VERNON ARC (LAUREL VEC) WALK-IN  
CONTACT: FRANK MACKEY N4GUS (703)455-1510

CUMBERLAND, MD - MOUNTAIN ARC (MOUNT. ARC VEC) WALK-IN  
CONTACT: LEO PATTERSON KQ8E (304)289-3576  
GAY REMBOLD W3DFW (301)724-0674

HARRISONBURG, VA - MASSANUTTEN ARA (ARRL VEC) WALK-IN  
CONTACT: MARSHALL COOPER N4ZKH (703)856-8012 (6-9PM)

DECEMBER 15, 1994 (THURSDAY)

TOWSON, MD - BALTIMORE ARC (ARRL VEC) WALK-IN  
CONTACT: BOB KENNICK WB3HNV (410)426-8255 MAILBOX #3468

SCHEDULE OF EXAMS

1995

JANUARY 7, 1995 (SATURDAY)

DAVIDSONVILLE, MD - ANNE ARUNDEL RADIO CLUB (LAUREL VEC)  
WALK-IN  
CONTACT: NANCY ALLEY NT3Z (410)761-7115  
BOB ISRAEL WC3I (301)262-5083

JANUARY 8, 1995 (SUNDAY)

LANDOVER, MD - D.C.M. ARC (ARRL VEC) WALK-IN  
CONTACT: FREDDIE BATTLE NG3G (202)546-9348 (DAY)  
(301)773-2898 (EVENING)

EXAM FEES:

- \* CHECK FOR APPROPRIATE EXAM FEE. FEES AND MODES OF PAYMENT FOR INDIVIDUAL VECs AND EXAM TEAMS MAY VARY.
- \* ARRL VEC EXAMS COST \$5.75
- \* LAUREL VEC EXAMS ARE FREE
- \* MOUNTAIN VEC EXAMS ARE FREE
- \* W5YI VEC EXAMS COST \$5.75



**BRING TO EXAM:**

- \* PICTURE IDENTIFICATION
- \* COMPLETED FCC FORM 610 (MOST VE TEAMS WILL SUPPLY AT EXAM)
- \* ORIGINAL AND A COPY OF CURRENT FCC AMATEUR RADIO LICENSE
- \* ORIGINALS AND COPIES OF ALL ACTIVE CERTIFICATES OF SUCCESSFUL COMPLETION OF PRIOR EXAMS
- \* EXAM FEE (CHECK OR CASH DEPENDING ON VE TEAM)

**"GRANDFATHER" CREDIT FOR ELEMENT 3B (GENERAL WRITTEN):**

- \* IF YOU PRESENTLY HOLD A TECHNICIAN CLASS LICENSE WHICH WAS FIRST ISSUED PRIOR TO MARCH 21, 1987, YOU MAY BE GRANDFATHERED FOR ELEMENT 3B (GENERAL CLASS WRITTEN EXAM) BY PRESENTING THE ORIGINAL AND A COPY OF THE LICENSE DATED PRIOR TO MARCH 21, 1987 TO THE VE TEAM. IT IS YOUR RESPONSIBILITY TO PROVE THAT YOU ARE ENTITLED TO GRANDFATHERING. DO NOT LOSE YOUR ORIGINAL LICENSE!

**RULES FOR SUBMISSIONS TO THE FAR VOLUNTEER EXAMINER COOPERATIVE:**

1. ALL SUBMISSIONS MUST BE IN WRITING
2. DATE AND DAY OF WEEK MUST BE SPECIFIED FOR EACH EXAM DATE
3. POINT OF CONTACT AND PHONE NUMBER MUST BE SPECIFIED
4. SPONSOR AND LOCATION MUST BE SPECIFIED
5. VEC MUST BE SPECIFIED
6. EXAM DATES UP TO 12 MONTHS IN ADVANCE WILL BE ACCEPTED
7. DEADLINE FOR SUBMISSION IS 25<sup>th</sup> OF THE 2ND MONTH PRIOR TO PUBLICATION DATE (e.g., SEPT. 25 FOR NOVEMBER ISSUE)

## **ELECTRONIC ONE-STOP**

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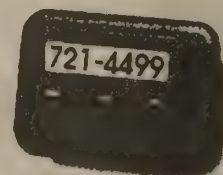
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# TRAINING CLASSES

Alexandria Radio Club	Rich Adamy - KA4GFY	(703)644-3920
Anne Arundel Radio Club	Tony Young - WA3YLO	(301)262-1917
Arlington Amateur Radio Club	Fred Bardsley - WD4DHW	(703)533-0372
Antietam Radio Association	Robert Long - KD3JK	(301)824-5132
Baltimore Radio Amateur TV Society	Joe Chidester - W3SHZ	(410)602-0353
Baltimore Amateur Radio Club	Essex Community College	(410)780-6854
Fauquier Amateur Radio Club	Neil Spokes - AB4YK	(703)364-3861
Frederick Amateur Radio Club	Steve Bauman - W3FOA	(301)662-4552
Herndon Repeater Group	Michael Weber - WB8RDN	(703)450-2304
Laurel Amateur Radio Club	Pud Reaver - W3DQI	(301)498-6293
Madras	Larry Ziecheck - N3GKS	(301)984-6112
Maryland Mobileers ARC	John Baugus - N3JME	(301)551-3161
Montgomery Amateur Radio Club	Jane Rosenthal - AA3CQ	(301)762-6262
Mount Vernon Amateur Radio Club	John Forrest - WZ4A	(703)971-3905
NASA/Goddard Amateur Radio Club	Vikki Gigante - KA3PVS	(301)249-2609
Ole Virginia Hams ARC	John Fritsch - N4YOB	(703)791-5995
Pentagon Amateur Radio Club	David Boyd - K9MX	(703)659-6241
St. Mary's County ARA		(301)862-2214
Shenandoah Valley ARC	Guy Black - W4PSJ	(703)722-4952
Southern Maryland ARC	Vic Curtis - WA3YUV	(301)888-1388
Southern Patuxent ARC	Dwayne Kincaid - WD8OYG	(301)586-2177
Springfield Estates ARC	Will Schmitt - KD4CNX	(703)768-5709
Stafford Adult Education	Jerry Mullinix - AC4HK	(703)659-3905
Sterling Park Amateur Radio Club	Mark Johnson - WS3N	(703)430-3804
Tri-County Amateur Radio Club	John Creel - WB3GXW	(301)572-5124
Vienna Wireless Society	Paul Wilkins - AB4CY	(703)560-2779
Woodbridge Wireless, Inc	Cliff Deel - KO4FM	(703)491-0841

## FOUNDATION MEETING

The Foundation for Amateur Radio, Inc. meets at 8: p.m. on the second Wednesday of each month.

**Visitors are always welcome**

The next meeting will be held November 9 at the  
Lee Center, Alexandria, Virginia

Take Capitol Beltway to Exit 1 (US 1 North)

North to the second traffic light, Left on Gibbon Street to  
Fayette. Left on Fayette to dead end at Lee Center Parking Lot.

Talk-In on 146.55



## PUBLIC INFORMATION COORDINATOR MARYLAND/DC SECTION

Melvin J. Morenz N3EKZ  
416 Brooks Court  
Glen Burnie, MD 21060-7616  
Voice: (410) 760-9426  
Packet: N3EKZ @ WB3V.MD.USA.NA

### NEW PIO APPOINTMENT

Accepting the Public Information Officer appointment for The Middle Atlantic FM and Repeater Council is the current Vice President of T-MARC Gary Hendrickson W3DTN. Congratulations on your new appointment Gary, and welcome to the MDC staff.

### HOSPITAL DEALS WITH PHONE ILLS

About 3:30 on August 1, members of the Mountain Amateur Radio Club of Cumberland, MD were called by the Allegheny County Emergency Management to provide communications for Sacred Heart Hospital due to a short in an underground phone line caused by the recent heavy rains in the area effecting nine of the eighteen trunk lines and the Lions Manor Nursing Home. The hospital Emergency Room was manned with radio equipment to provide a link between the hospital staff and incoming ambulances. Both the hospital and the nursing home were manned until normal communications were re-established around 10:00 p.m. that evening.

Amcomm 1 was quickly utilized, many phone patches were made and amateurs also manned the medical radio while an auxiliary unit was being put on line.

A BIG TEAM EFFORT to a JOB WELL DONE. Thanks to: W3DFW Gay, WB3AXV Bob, N0BSD Ken, K3OMN Ronnie, N3BJP Paul, N3LJS Rob, KG8GN Shannon, N3ISA Dave, WB3KOZ Bob, N3JFF Hilton, N3OQU Garry, AA8V Greg, N3IVK Matt, N8YIB Ron, K3MWI Ed, N3RJB Rip, N3AFB Gene, AJ3X George, N8HFT Bob, WA3SYE Al, and KA3ZIO Mary.

Mr. Bud Willetts, director of communications for the hospital said "That Bunch is incredible, it's like somebody blows a horn and they're on the way." (Submitted by Dave Penrod N3ISA)

### WORLD RADIOSPORT TEAM CHAMPIONSHIPS '95

The Potomac Valley Radio Club (PVRC)/ARRL/IARU will be hosting the WRTC '95 event in the Washington DC area. World class events such as this require a tremendous amount of support and the PVRC will be looking for (preferably a club) to lead the logistics effort for this event. Individual volunteers are also welcome to participate.

Support for this event includes everything from host families to house approximately 50 teams from around the world, to VHFcoordination during the contest, stations to be operated by the various teams (typically tri-banders at 60 feet) including wire antennas, and recreational activities during the two weeks surrounding the contest in July 1995.

The WRTC '95 committee has a very nice video (approximately 20 minutes) about WRTC-90 that is available to interested clubs along with a presentation about what the PVRC is all about, what they are doing, and their projected needs for WRTC '95.

To scheduled a presentation, contact Brian at: H (410) 531-6596, W (301) 317-3812, or drop a packet message to: ND3F @ WB3V.MD.USA.



### Antietam Radio Association

- Meetings: First and Third Tuesdays of each month at 8 pm. at E.O.C. of Washington County Courthouse, 100 West Washington Street, Hagerstown, Maryland.
- Mailing Address: P.O. Box 52, Hagerstown, MD. 21741.
- Nets: Tuesday 7 pm. 146.940 MHz; Wednesday 7 pm. 447.975 MHz; Thursday 7 pm. 147.090 MHz-Regular and Swap Net.
- Information: Donnie Sue Mulligan KB3AOO, 301-582-2984

### Dedication Ceremony for Hiram Percy Maxim's Individual Marker

It was a beautiful, cool September 2, 1994 for HIRAM PERCY MAXIM DAY, a proclamation by Mayor Steven Sager for Hagerstown and AMATEUR RADIO DAY, proclaimed by the President of Commissioners Richard Roulette for Washington County of Maryland. Deborah Brown was our "greeter" and had everyone sign the guest book. Fifty-five signed and a few others showed up. The dedication ceremony included speakers from the Master of Ceremony, Al Brown/WA3FYZ; Invocation by Jerry Metz/W3BRZ; The Pledge of Allegiance; Committee Chairman, Ted Lawhead/WA3AAT; Mayor Steven Sager; Commissioner Richard Roulette; ARRL Representatives, Hugh Turnbull/W3ABC and Rick Palm/K1CE; the dedication by Steve Blevins/N3MVL, ARA President; the unveiling of the marker by Steve Blevins and Derek Hamilton; the transmission of the Radiogram by Joe Rummel/NS3Q and answered by Don Marsden/KD3TY; to the benediction by Jerry Metz.

Weld had a great day and it was just getting started. The ceremony lasted just a little over 30 minutes. It was worth everything weld put into it. Everyone I talked to said it was a wonderful ceremony... and I think it was. The sun shone, the wind blew, and the bees buzzed around the food weld set out for visitors.

There were cameras all around the gravesite of Governor Thomas Hamilton, Hiram Percy Maxim's father-in-law and where Mr. Maxim is buried. Many people took many pictures and videos. This is the day some of us will never forget. We have NOW, in Rose Hill Cemetery, an individual marker where, before September 2, 1994, Hiram Percy Maxim's name was on top of the Hamilton's monument, very hard to find. We dedicated the marker on what would have been his 125th birthday for the "Father of Amateur Radio", founder of ARRL, and a noted inventor.

73, Donnie Sue KB3AOO





**The Shenandoah Valley  
Amateur Radio Club, W4RKC**

- Meetings: First & Third Friday of each Month 7:30 PM
- Place: The Collins building 921 Grace St. Winchester
- Repeater: 146.22/82 W4RKC
- Net: SVEN 7:15 PM Daily 146.22/82
- Information: George Ritter W4UGX 703-662-0157
- Club Pres.: Irvin Barb KD4BHV
- Address: P.O. Box 139, Winchester, Va. 22604

The annual SVARC Picnic was a very big success. Much credit goes to those members who did the technical displays and demonstrations. Rick Choy, N3HXT joined up with Sam Reaves, WA4GOU with a demonstration of circuit board fabrication from schematic generation to finished product. John Brooks, KC4YMR kept people interested in his automatic doppler radio direction finding equipment with live demonstrations. Sam James, KD4LSX conducted an ongoing FM Clinic checking frequency and modulation of members HT's. Royce Crocker, W3CSG did his usual superb job of demonstrating Packet Radio systems with hands-on experience.

Guy Black, W4PSJ and Mark Sunderlin, KD4HRI's Fall licensing class will produce up to 25 new Hams, our largest class yet. The students range from a nine year old girl to retirees. We plan to conduct an upgrade class in January 1995, watch for the announcement.

We are all very proud of Mary Ann Foble, N8ODZ. The SVARC president presented Mary Ann with a very nice plaque and certificate from the ARRL. Mary Ann was one of five runner ups for the annual McGan Silver Antenna Award in the September issue of QST magazine. This is a very prestigious award. Only one per year is presented in the whole country. Keep up the good work Mary Ann.

The final series of Public Service Events will be completed with this edition. Many thanks to Fred Wetzel, W4KRT for his general management of the Walktober Fest and to all those who helped, especially Fred's wife Janie, KA4HOP who performed some unusual task. Thanks also go to KD4HRI, KE4QVT, WA4HVU, W4UGX, KD4BHV and KE4JJR for their help. We can report next month on the The Old Dominion 100/50 Mile endurance event which will be headed up by Rick Choy, N3HXT. The Battle of Cedar Creek Re-enactment coverage runs all week end and will require a large number of Hams. We will report on this next month as well. The Criterium Bike ride on the same week end is also a first for us.

Fred Wetzel, W4KRT, our Emergency Services Officer just completed some local area portable Packet operations. Operating portable and mobile packet stations for the test were; Stan Monish, KD4HRJ, Rick Choy N3HXT, Irv Barb KD4BHV, and Danielle KC4SUV. All systems are ready for the Simulated Emergency Test, (SET), scheduled for October 8th, 1994.

73 DE IRV KD4BHV

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**T-MARC  
THE MIDDLE ATLANTIC FM AND  
REPEATER COUNCIL, Inc.**

- Meetings: Frequency coordinating committee normally meets the last Monday of each month, 19:30, in the OEP conference room of the Prince George's County Emergency Operations Center off Central Avenue.
- Address: P.O. Box 1022, Savage, Md. 20763-1022 for all correspondence.

First, you may have noticed in the column heading that T-MARC is now incorporated, thanks to the efforts of N3AKD. We want to thank the Vienna Wireless Society for their kind donation to assist T-MARC in our work.

T-MARC has a new repeater directory available. To get a free copy, send an SASE to the address shown above.

The annual general membership meeting and election of officers for the next year is tentatively scheduled for February 5th at Tyson's Corner, Va., with a rain date of February 12th. Put it on your calendar!

The frequency coordinating committee continues to be very busy. Recent coordinations include the following proposed new repeaters: 442.575/447.575 repeater near Thurmont, Md., to N3NRR; 449.200/444.200 at Randallstown, Md., to N3GXH; 442.675/447.675 at Manchester, Md., to N3KZS; 444.675/449.675 at Towson, Md., to N3ST; 447.500/442.500 to the Glen Burnie UHF Repeater Group at Bowie, Md.; and 449.250/444.250 to WB3GXW at Calverton, Md.

The operating frequencies of some repeaters have been changed: the Western Maryland A.R.C.'s 144.51/145.11 repeater near Oakland, Md., was changed to 147.705/147.105; KB4CVL/s 52.97/53.97 repeater on Bull Run Mountain, Va., was changed to 52.45/53.45; the BRATS' 443.975/448.975 repeater in Bal-

timore was changed to 442.725/447.725; and the McHenry A.R.C.'s 448.950/443.950 repeater in western Maryland was moved to 449.425/444.425.

The Delaware Repeater Association lost the old site for their 146.700 repeater and was re-coordinated to a new site near Newark.

Several new links have recently been coordinated: Tri-County A.R.C.'s 147.18 repeater in Silver Spring; Southern Patuxent A.R.C.'s 147.195 repeater at Leonardtown, Md.; KB8NUF in western Maryland; and several of the Network Engineer's Repeater Association's link frequencies for their 449.975 repeater in the D.C. area were changed at the sponsor's request.

Finally, the following coordinations have been cancelled: the Downriver Control Group on 449.45/444.45 at Falls church, Va.; and Pond Mountain Repeater Group on 448.55/443.55 near Thoroughfare, Va.

The preceding paragraphs highlight a "rule of thumb" which makes is easy to remember which frequency is used as a repeater input and which is used as the output - the input should always be listed first, followed by the output frequency. For example, the Tyson's Corner .91 repeater should be shown as 146.31/146.91, which means "146.31-input/146.91-output". We should all use the same standard so we're always speaking the same language. This is the standard you will always see in this column.

73, Gary, W3DTN, T-MARC PIO

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## The Mid-Atlantic DX and Repeater Association

- Meetings: By published schedule, generally the second Thursday of each month. Meeting locations rotate among places in Maryland, Pennsylvania, Virginia and West Virginia.
- On The Air: 1930 Tuesdays on 147.66/06
- Address: 230 North Potomac Street, Suite 2A, Hagerstown MD 21740
- Information: Call our Voice BBS: 301-416-8447, select Box 101 and leave your message requesting club info.

It seems as if the summer of '94 has seen MADRA so involved with repeater and service projects that the DX part of our name hasn't had much attention. The latest activity in the repeater category took place on September 24, slipped from the 10th, when a stalwart party of workers met at the 147.06 repeater site to paint the roof, install insulation and improve the grounding system. The award for taking the worst job from the Too Tough Pile goes to Curt, N3QIZ, who spent a lot of sweat and muscle to prove that ground rods don't go through rocks. We have learned that T-MARC is planning to return the 147.06 repeater frequency to the unused pool. We are contacting T-MARC to see if we can coordinate the continued use of this frequency.

Mike, WB8VBW, with occasional help from other members, has engineered a shift of our voice mail system from club HQ in Hagerstown to the 147.06 repeater. This enables us to offer 2M autopatch privileges to members and will provide for voice mail access through the repeater in the near future.

MADRA has been the leader for the past three years in providing public service radio support to the annual RailRoad Days festival in Brunswick, Maryland. The 1994 festival was held October 1-2 and was a grand success. The bee stings, broken ankles and other emergen-

cies of last year's festival did not show themselves this year, so the Ham communicators had a lot of time to think about the phrase: "They also serve who stand and wait." Members of the Opequon, Frederick and Antietam clubs pitched in to help, too. The California QSO Party, plus contacts with Germany, Angola and other common DX places gave an air of short-wave drama to our demo HF station. Mike, WB8VBW, and SAM, N3MPE, deserve special mention for their willing donation of time, labor and equipment to Friday night setup and Sunday night teardown.

Jim, KA3SDM, trustee of the 147.06 repeater, spent a good portion of his September battling health problems. Since this prevented him from getting out to club activities the other members have been scheduling eyeball contacts at Jim's QTH when the hospital allowed him to be home.

MADRA is continuing to offer VEC exams on the third Saturday of each month in Smithsburg. Please contact our telephone BBS, extension 110, for information on how to sign up and how to find the exam site. Our club meetings are open to all and never, never consist of long business sessions so you should be encouraged to join us for dinner and a lot of talk about Ham Radio. Our November meeting should be at 7 PM on the 10th in Greencastle PA. Please call our telephone BBS to verify this; it's being written more than six weeks in advance and we don't want to send you off to the wrong state in our four-state circuit.

73 DE N2CSQ/3

### SEND YOUR CLUB COLUMNS AND SHACK SALES TO:

Doug Allen, Editor  
8008 Shadow Oak Lane  
Pasadena, MD 211122



### Capital City Amateur Radio Society

- Meetings: 3rd Saturday of the month at 12 Noon (except July & August). Woodridge Public Library, 18th & Rhode Island Ave. NE, Washington, DC
- Repeater: 145.11/144.51 Mhz in NE Washington, DC. Auto-patch membership available.
- Weekly Nets: Computer Net: Monday at 8 PM on the repeater Packet Net: Tuesday at 8 PM on 145.53 MHz On-Air Meeting: Wednesday at 8 PM on the repeater RTTY Net: Thursday at 9 PM on the repeater (All amateurs are welcome to join in on any of these nets).
- Information: Chester R. Martin, W3EIL, (202) 529-9598 1719 Franklin St. NE, Washington, DC 20018 Leo J. Boberschmidt, KA3TGY - KA3TGY@N3BBF.MD.USA.NA
- Training: Plater Campbell, N3DZQ, (202) 544-7810

**NEW CALLS/UPGRADES:** Gus Hernandez has his new Advanced class call sign: KE3NY; now we have to remember to quit calling him "N3KTM." Willie Lamb N3PYO has passed his 20 word per minute code test and is working on the technical tests. Way to go to both Gus and Willie.

**2-METER ASSISTANCE:** CCARS member Angela McKay KE6BDW drove back from her Sacramento, CA home to Catholic University to start another year of schooling. After crossing the country with no problems, Angela had car trouble not far from her Catholic U. destination; she got on 2 meters and was immediately answered by Shep Shepperson WB3KIC who started to arrange help for her. Soon after, however, a classmate was coming by, stopped, and made a call on a cellular phone to get her help. Angela was still greatly relieved to know that one call on the CCARS repeater brought an immediate response. Don't forget the value of our 2 meter equipment.

**ISLANDS ON THE AIR (IOTA):** CCARS member Leo Boberschmidt KA3TGY likes chasing the islands in the IOTA program in addition to his DX activities. In September, Leo submitted 214 QSLs for his IOTA 100, IOTA 200, and IOTA North America Awards. He is now waiting for his IOTA certificates to be delivered from England. If you are looking for some more fun on HF, looking for some really fine QSLs, or just like islands, give the IOTA program a try. On 20 meters, you can usually find someone on or around 14260, recognized as one of the IOTA frequencies. An IOTA Directory of all the islands in the program is available from: Dewitt Jones W4BAA, P.O. Box 379, Glen Arbor, MI 49636 for just \$8.00 postpaid. Give IOTA a try, it is another way to have really great fun on the radio.

**BIRTHDAYS:** A special birthday greeting to Juanita Carter N3NQC on her birthday on November 3rd. Greetings also to Willis Stewart N3LGB on his birthday on November 12th.

73 de KA3TGY, Leo Boberschmidt,  
CCARS Public Information Officer

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### Rock Creek Amateur Radio Association

- Meetings: 3rd Friday of each month at 7:30 PM. VITRO Corp. Bldg #4, 13900 Connecticut Ave., Silver Spring, MD
- Repeater: W3RCN, 145.25/144.65 in Rockville, MD
- Weekly Net: Monday at 8 PM on the repeater
- Alumni Net: Monday at 10:45 AM on 7.230 MHz (+/- QRM). (All amateurs are welcome to join in on these nets).
- Luncheon: Each Wednesday at 11:00 AM at the Anchor Inn in Wheaton, MD
- Address: P.O. Box 1913, Silver Spring, MD 20915
- Information: Leo J. Boberschmidt, KA3TGY (301)946-3738 or KA3TGY@N3BBF.MD. USA.NA

**MEMBER HAPPENINGS:** Carl Brandt N3CFA has had very good service from the ARRL DXCC desk. Carl sent in endorsement QSLs to bring his DXCC totals up to 150. It took only 25 days from Carl's sending the cards to having his upgrade stickers from the ARRL. Congrats to Carl on his DX efforts and additional congrats to the ARRL for really fine member service.

**IN RUSSIA:** Carl's son, Erik Brandt KK3C, is in St. Petersburg Russia teaching English and also doing missionary work. After having a problem with being mugged his first week there, Erik is settling in to his work. Perhaps we can persuade Erik to get a license and start operating as a DX station when he gets a chance.

**ALUMNI NET CONTROL:** For the past few years, Bernie Burr K3GMB has been the net control for the Monday morning RCARA Alumni Net. RCARA is now looking for a replacement as Bernie would like to take a rest from these duties. If any of the members reading this would like to help out, contact one of the club officers or check in on the Monday night net.

**HPM 125:** From September 2nd to the 11th, the ARRL celebrated the 125th birthday of Hiram Percy Maxim, a co-founder of the ARRL and its first president. A special operating event was initiated whereby all persons with ARRL positions or appointments could get on the air signing their call with "125" appended. This turned out to be quite an active event. As Public Information Officer (PIO) for RCARA, I was able to get on the air signing "KA3TGY/125" and I had a really great time. At times there were even large pileups trying to work the "125" stations just like the pileups for some exotic DX. The ARRL had a free certificate for those who worked at least 25 of these special stations. I know I had a lot of fun and all the others signing "125" were surprised at the response to the event.

73 de Leo Boberschmidt KA3TGY, RCARA  
Secretary & Public Information Officer

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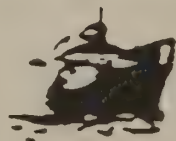
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## National Capitol DX Association

- Meetings: Feb, Apr, Jun, Aug, Oct and Dec at a member's home. Contact the Secretary (Rick Murphy, WA1SPT) for details.
- On-The-Air: Every Sunday at 8:30 PM on the 147.000 repeater. All are welcome!
- Information: Rick Murphy - WA1SPT (703) 280-2637. Leo Boberschmidt - KA3TGY (301)946-3738 or KA3TGY on the local DX PacketCluster or KA3TGY@N3BBF.MD.USA.NA

**ELECTIONS:** By the time you read this, NCDXA will have had its October meeting and the elections of new officers. Look for next month's column for a listing of the new officers. I am looking forward to a bit of a rest after being President for two years. Thanks to all the NCDXA members for their help and support.

**AUGUST MEETING:** Our August joint meeting with PVRC was held at the Bay side picnic location of W3YOZ. As usual, all had a great time and really enjoyed the fine location. Many, many thanks to Marty for his hospitality; if you missed being there, plan on it for next year.

**NCDXA DXers:** Fred, K3ZO, wrapped up another trip to Thailand where he operated his usual HS0ZAR. He was able to give out a lot of CW contacts on 20 meters. We will have to see who else in the NCDXA membership will be out there as a DX station.

**SUNDAY NIGHT MEETING ON THE AIR:** Every Sunday night at 8:30 PM local time, the NCDXA has an on the air meeting on the 147.000 repeater. If you haven't checked in for a while, if you are looking for DX information, or if you want to know more about NCDXA, stop by some Sunday evening. All are welcome.

**N7RO DX QSL SERVICE:** Many of you already know this, but after 13 years and al-

most 1 million QSL cards, Dick Moen, N7RO, has retired the "N7RO DX QSL Service." Dick has been a great asset to many DXers and his fine work is being taken up by Les Bannon. Dick has forwarded all the files and QSLs to him. So, for the new DX QSL service, write to:

WF5E Les Bannon, 3400 Bedford, Midland, TX 79703. To Dick goes our sincere thanks for all the years of really fine QSL service.

73 & Good DXing de KA3TGY, Leo Boberschmidt, NCDXA (past President)



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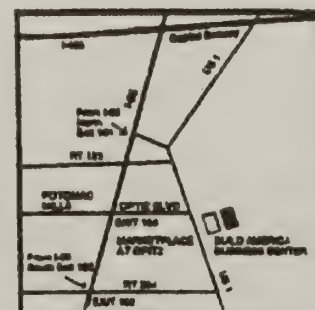
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### Baltimore Amateur Radio Club

- Meetings: Twice monthly, 7:30 pm at Dulaney High School (Padonia Road, Timonium MD)
- First Wednesday of the month: business meeting
- Third Wednesday of the month: programming
- Repeaters: W3FT/RPTR 146.67(-)/224.24(-) (no PL) and 449.625(-) (PL 107.2) Note: two meter/220 Mhz are linked.
- Club Net: Every Tuesday night at 8:30 pm on 146.67/224.24
- Club BBS: (410) 665-7646 (minimum 2400 baud)
- Club Voice Mail/Information: (410) HAM-TALK Greater Baltimore Hamboree & Computerfest/Maryland State ARRL Convention Information: (410) HAM-FEST or (800) HAM-FEST
- Mailing: BARC, Inc.; P.O. BOX 120; Reisterstown MD 21136

September's program meeting featured Maurice/KA3EJJ on Amateur Television. Maurice has been active for years with ATV and brought plenty of equipment and expertise to share with the club members. Some of his better-known recent exploits include putting a remote-controlled camera on top of the top of an antenna tower so that we could pan, tilt, and zoom in on the scenery from that vantage point, and providing live pictures of our field day operations on the local ATV repeater. It's always a treat when Maurice brings out his gear.

For the November program meeting (on the 16th), we have tentatively arranged for a presentation by a representative of the National Security Agency on the topic of "Intelligence Gathering From The Revolutionary War To Modern Times", with a particular emphasis on electronic means used during the era of World War II. Final arrangements for the talk are incomplete at press time, but we are looking forward (probably) to a very interesting and infor-

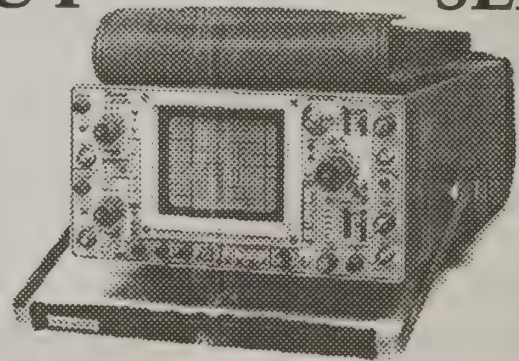
mative talk, so mark your calendars.

The fall licensing class should be nearing completion by the end of November. In past years we have arranged a special testing session to be held on the last Tuesday night of the class; look for it toward the end of November. Meanwhile, the next regularly scheduled VE testing session will be held on Thursday December 15th at 7:00 pm at Towson Presbyterian Church (at the corner of Chesapeake and Highland).

Congratulations to the Free State Amateur Radio Club (K3IVO) team members, WA3TID, N3DCI, and WG3R, for their fine job flushing the fox from its den during our last transmitter hunt. (Described in last month's AutoCall column.) The date of the next hunt was not available at press time; check the weekly club net or the voice information line for updates.

73 de N3IVO/Rosie

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## AMSAT

### The Radio Amateur Satellite Corporation

- Local Meetings: Semiannual in March and September.
- VHF FM Net: Sunday at 9 p.m. on 146.835 MHz FM, WA3NAN/R, Greenbelt, MD.
- Information: NCS Pat Kilroy, WD8LAQ, by packet radio: WD8LAQ @ WB3V.MD or by Internet: wd8laq@amsat.org

*AMSAT is a non-profit, scientific and educational organization incorporated in Washington, D.C. with headquarters in Silver Spring, Maryland. Everyone is welcome to join AMSAT and to become actively involved in the support and operation of the amateur space program. Our AMSAT Regional Coordinator is Howard Ziserman, WA3GOV. If you would like additional information then please write to: AMSAT Headquarters, PO Box 27, Washington, D.C. 20044. Or you may telephone headquarters at 301-589-6062.*

**TRIP TO HOUSTON.** One of my most exciting adventures as a Radio Amateur (and most exhausting!) came with a recent trip to Houston, Texas. I was sent by AMSAT and NASA to the Mission Control Center at the Johnson Space Center for nine days to support the Shuttle Amateur Radio Experiment (SAREX) payload aboard mission STS-64. As a result, I now have new respect for how much work goes into coordinating this program between flights and during a flight. I was impressed with the vigor of some of the sharpest minds in amateur radio and the space business down there. Our beloved Auto-Call magazine does not publish the number of pages I could fill in describing my experiences!

**MEETING RESULTS.** Our local AMSAT semiannual meeting was a major success. On Sunday afternoon, September 18, about 44 individuals got together in the Visitor Center auditorium/media studio at the NASA Goddard Space Flight Center in Greenbelt, MD. The keynote speaker, Doug Varney WA1UVP, showed how to assemble a Global Positioning System (GPS) receiver out of monolithic microwave integrated circuit (MMIC) "building

blocks". We realized that the technology is within reach of the radio amateur community today.

AMSAT V.P. for Manned Space Programs, Frank Bauer KA3HDO, gave a colorful fact-filled description of current SAREX activities and plans. Frank's presentation was preceded by a jumbo multi-screen video on the SAREX program that was undertaken last year by a school in Cincinnati, Ohio for STS-55. Many attendees were amazed with the large amount of work a community can put into their school as well as the concomitant large personal reward. The following question and answer period allowed all a better chance to snatch their own SAREX contact that day.

Marty Davidoff K2UBC, renown author of the ARRL publication "The Satellite Experimenter's Handbook", was on hand to answer questions and meet many local amateur satellite enthusiasts.

Other interesting individuals from the annals of AMSAT were present and other activities took place. There was plenty of time to socialize and to "network" among common interests. The next local AMSAT meeting was tentatively set for Sunday, March 19, 1995.

**AMSAT IN SCHOOL.** During space shuttle mission STS-64, several members of AMSAT teamed up with members of the Goddard Amateur Radio Club to set up the portable WA3NAN satellite station at the Eisenhower Middle School in Laurel, MD. (The Goddard ARC is the club whose volunteer members have been formally recognized for providing live coverage of the orbiter air to ground communications on the hf and vhf bands during space shuttle missions for students and all radio amateurs.) The students there had a coveted scheduled contact with Dr. Jerry Linenger, KC5HBR, as he flew over Laurel in the space shuttle Discovery. On the satellite station duty were Howard Ziserman WA3GOV,

*Continued on next page*



### Vienna Wireless Society

- Meetings: 2nd and 4th Fridays of each month, 7:30 PM, Vienna Community Center, 120 Cherry Street S.E., Vienna, VA
- Repeaters: K4HTA/R 146.085 in/146.685 out, 443.375 in/448.375 out
- Nets: Vienna Emergency Net every Wednesday at 7:30 PM, 146.085/146.685. Pow Wow Net every night, except meeting nights, at 9:00 PM on 28.444 Mhz. Slow Code every night, except meeting nights, at 8:30 PM on 28.390 Mhz.
- Information: Brian Bayus-N1KCE, (703) 264-1180
- Training Classes: Paul Wilkins-AB4CY (703) 560-2779

September was a busy month at VWS. Lots of public service activities and great programs at our Membership meetings.

On September 17th, a VWS contingent lead by Jorge Thevenet-KD4DGQ, participated in the Town of Leesburg WWII 50th Anniversary celebration and Confederate Airforce presentation. VWS Members participating included: Chris Bayus-KD4FBU; Norm Brew-KB4VCV; Bob Dooley-KK4GB; Rusty Haddock-KD4WLZ; Lisa Thevenet-KD4DGO; Bob Turley-KO4VQ; Art Walsh-AB4CG; Donna Yarbrough-KE4FYM; Danny Yarbrough-KE4DXA and yours truly. We were glad to help out the folks in Loudoun County and a good time was had by all.

At the VWS meeting held on September 9th, VWS Members Wayne Johnson-KD4TA and Jerry Bloomer-KD4PUP shared their experiences as QRP operators and how one can get started in this interesting and challenging aspect of Amateur Radio. Also, Dick Szakonyi-KA3ZOW of S&S Engineering gave us a primer on some of the finer points of receiver design and performance, which is particularly applicable to QRP operations. Thanks to all for a fine show.

At our September 23rd meeting Mack McClain-KC4IGS and Dale Harris

W4DM, introduced many of us to the MARS "Military Amateur Radio Service" Program. It is fine work that they do and maybe a few were inspired to join in the effort. Thanks to both for sharing their experiences and a fine presentation.

October portends to be a very busy month, not only for Club activities but contesting as well. So good Luck and good DX.

73, Brian-N1KCE

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*AMSAT - Continued from page 33*

Jim Gass N3CJN, Bill Boston N3DCI, Jim Blackwell N3KWU, Alex Benitez WX3Q, Hugh O'Donnell W3FUO, Robert DiRosario KA3ZYX and others. The students and the members broke the unofficial SAREX record at the time with 23 questions answered by an astronaut on a single pass. Nice Work!

**NEXT SAREX.** The next mission to carry SAREX will be STS-67 in February with AMSAT's own Ron Parise, WA4SIR, on board the Endeavour as an ASTRO-2 payload specialist.

**SUNDAY EVENING NET.** The number of check-ins to the AMSAT weekly information VHF net averaged only four to five at best during the summer. I hope the low turn out was due to a lot of happy hamming. For the beginner, this net is a great time to receive the next best thing to personal instruction on how to communicate through the amateur satellites. For others, the net is a way to receive the latest news and events regarding the amateur space program as well as the current OSCAR status reports. Mark it on your calendar: Sundays at 9 p.m. on 146.835 MHz FM Greenbelt, MD.

We don't want to miss you!

73, Pat WD8LAQ



## Anne Arundel Radio Club

- Meetings: 8 PM 1st and 3rd Thursdays, Davidsonville Family Recreation Center, Queen Anne Bridge & Wayson Roads off MD Rt. 214 near Annapolis.
- On The Air: 2030 Thursdays when there is no club meeting on 147.705/105. Tuesdays at 2030 local time on 28.410. Wednesdays at 2000 on 444.400. The Chesapeake Weather & Traffic Net on 147.705/105 at 1100 and 1500 every weekend day and public holiday from April 1 to November 15. MSN (Maryland Slow Net) every evening at 1930 on 3.7170 Mhz.
- Address: P.O. Box 308, Davidsonville, MD 21035
- Information: Margaret (Holly) Bevan, 301-923-0229

Hurricane Omar was the subject for the August 18th program meeting. Hurricane Omar was a simulated storm to provide practice for Federal, State and Local Government emergency management groups. According to the scenario, Omar slammed ashore in Annapolis on June 2nd with winds in excess of 100 mph. Jerry Herman/N3BDW, President and Net Manager of the Hurricane Watch Net, discussed the simulated progress of the storm, how amateur radio would have participated had this been an actual storm and some of the effects that would have resulted from a storm of this magnitude had it hit the Annapolis area. At the September 15th program meeting, John Williams/K8JW discussed the dangers of lightning to home radio station equipment and described the most effective techniques for providing protection against lightning damage.

AARC provided communications for the 19th Annapolis 10-mile Run on Sunday August 28th. Communicators were stationed at the start and finish and at four aid stations along the way. Bicycle mobile hams rode ahead and behind the runners. Coordinator Tim Dugan/KA3YYP reported that everything went

smoothly and the efforts by the Club were much appreciated.

AARC Life Member Wilbur (Bill) Bevan/N3BET became a silent key on September 7th as a result of acute respiratory failure. Bill had been an active member of AARC since he completed the, 1979 Novice Class. He will be missed.

During the August 18th VE Testing session at the Clubhouse, 30 tests were given to 13 persons. Thirteen tests were passed with 8 upgrades. The testing staff included Bob Israel/WC3I, Oscar Ramsey/NV3G, Charlie Tiemeyer/W3RMD, Harold (Ham) Molz/N3FDH, Harlan Ray, III/AA3FE, Gary Wisniewski/N3SJJ, Bettye Tiemeyer/K3VRZ and Holly Bevan/N3BMB. At the September 10th testing session, 12 tests were given to 7 persons. Eight tests were passed with 4 upgrades. The testing staff: Bob/WC3I, Oscar/NV3G, Charlie/W3RMD, Dick McKelvie/KE3HQ, Jeff Smith/N30KY, Robert Kammer/N3POX, Bettye/K3VRZ and Holly/N3BMB. The next testing session at the AARC Clubhouse will be on November 12th.

Danny Aylor/WA3UUO and Robert Kammer/N3POX have upgraded to Advanced. Cora Wisniewski/N3SJJ is now Tech+.

73, Holly/N3BMB





### Maryland Emergency Phone Net

- Meetings: Nightly, 1800 Local, 3920 KHz
- Directors: WA1QAA, W3DQI, K3ONU, NF3X (Alternate)
- Manager: K3ORW; Secretary: WA3YLO; Treasurer: KC3ZJ
- FAR Representatives: KC3ZJ, WA3FYZ

Congratulations to K3ONU, Bob Roberts, for his election to the board of directors. Bob has been here before, and is certain to keep the net straight and running smoothly. Also, we thank KD3JK Bob Long, for his double stint as our alternate. Charlie Anderson, NF3X, is the retired director who is now our alternate.

We had a very successful meeting at the F.A.R. FEST. I believe about twenty members were there, and we met KB3AZW/Mark, a new member from Lexington Park (who is now KE3OX, by the way). We had a moment of silence for our departed member W3SWD/Dan, who became a silent key on Sept 6. Dan was a well-known and well-respected ham in the area, active on several nets, and he will be missed by the MEPN.

The MEPN is getting closer to establishing a VHF traffic and training net with several goals in mind: using two meters to service those spots where HF traffickers are rare; to encourage more folks (the repeater bound, and the condo-constrained) to get into traffic handling; and to develop a more complete MDC traffic emergency system "just in case"...

By now the Simulated Emergency Test is over, and I hope some of you participated in the planned stages (and some unplanned stages) of the scenario. One of the goals of the SET is to try to saturate the NTS with traffic so that weak links or choke points can be identified and fixed.

Finally, the Laurel ARC hosted both Mike Carr, WA1QAA, the MDC Section Emergency

Coordinator, and Al Nollmeyer, W3YVQ, state RACES coordinator, at their September meeting, where they explained the similarities and differences between ARES and RACES. If your club has a gang of new operators, or just some folks who would like a reminder of what these two activities are, Mike and Al gave quite a good program to the LARC.

See you "ON THE AIR.....  
73..... W3DQI/PUD

### Arlington Amateur Radio Club

- Meetings: Third Tuesday of each month at 7:30 PM Place: Red Cross building, 4333 Arlington Blvd., Arlington, VA
- Net: Tuesdays (except third Tuesday), 7:30 PM, 145.47(-)
- Information: Mike Callahan, NW3V 241-5618 or @WA3TAI Mail: 4333 Arlington Blvd., Arlington, VA 22203

The Arlington Amateur Radio Club would like to welcome two new members: Dave Miller, KE4CYY; and Walt Parsons, KE4NFF. Great to have you guys on frequency.

We'd also like to congratulate Joe Shepherd, AB4RA. Joe's getting married in December!

At the September meeting, we reviewed the state of our beam antenna and allocated funds to replace the damaged balun. It looks like the coax feed line got caught on the tower and pulled the balun apart. The antenna could well be repaired by the time this gets to print.

Fred Bardsley gave a nice report on the amateur radio contacts between Arlington and our sister city, Aachen, Germany. He's looking forward to resuming a sked on HF this fall but in the meantime he's been passing packet traffic via satellite. A large delegation from Aachen will be visiting the first week of October.

*Continued on next page*



## Mount Vernon Amateur Radio Club

- Meetings: Second Thursday of each month, 7:30 p.m. (except December) Mt. Vernon Governmental Center, 2511 Parker's Lane, Alexandria, VA 22308
- Repeater: WD4PDP/R 146.055 input 146.655 output
- Nets: Every Tuesday at 9:00 p.m. Starts on 2-meter then moves to 10-meter on 28.408
- Information: John KI4HK, (703) 780-2882 or Julie KD4WSZ, (703) 799-9466
- Training Classes: John Forrest WZ4A, (703) 971-3905
- Testing: Second Saturday of each month, 9:00 a.m. Robert E. Lee RECenter in Lee District Park 6601 Telegraph Rd., Alexandria, VA 22310
- Mailing Address: Mt. Vernon Amateur Radio Club (MVARC) c/o Joe Salemi KR4CZ P.O. BOX 7234 Alexandria, VA 22307

procured from Steve WB4EEA, at the meetings or by phone (780-7248).

Testing; second Saturday of every month. Code and written, all levels. At Lee District Park in Alexandria. No charge and walk-ins are welcome. Call Frank N4GUS at (703) 455-1510 for information or if you are interested in being a VE or helping at the exams. You don't have to be a VE to help out. Please arrive between 9 & 10 a.m. for testing.

Congratulations and thanks to all members who have paid their dues.

**MVARC's Next meeting, the second Thursday of the month: November 10, 1994; 1930hrs (7:30pm)**

Julie, KD4WSZ

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*Arlington - Continued from page 36*

Tom, N4BYF, informed us that there is now a PL tone of 107.2 on the 145.47 repeater's new Merrifield remote receiver.

Joe, AB4RA, set up and demonstrated the AEA "Morse Man" Memory keyer. He showed us how, in addition to a versatile keyer, the unit can store messages in up to 20 memories, generate random CW, simulate QSOs and contests, and repeatedly send a message for a beacon station.

Remember, club officer elections are coming up in December, we'll open nominations at the November meeting.

We'd especially like to encourage those of you in the area curious about ham radio, and wondering how to get your start, to join us at one of our meetings. We've got some new instructional materials to help you get your first ticket and we'd all be glad to help.

73, Marc, KS4CU (formerly KD4PDC)

September 11th: MVARC hosted the announcing at the F.A.R. Fest in Gaithersburg, Md.

The International Children's Festival at Wolf Trap was a great success.

October: Novice/technician classes: call John Forrest (703) 971-3905

October 23: Marine Corps Marathon. We will be looking for several, not just a few, but several hams to participate in communication control.

November: Sweepstakes contest-contact Dan N4YKD (703) 354-1677.

December: MVARC Christmas Party, December 8, 1994. Be sure to sign up early.

Public Service announcements on the 145.91 repeater, Wednesday evenings at 8:30 pm "2030 hrs).

MVARC attire is available. Forms can be



### Woodbridge Wireless, Inc.

- Mailing: P.O. Box 112
- Woodbridge, VA 22194
- Meeting: Second Tuesday Each Month  
Springwoods and Chaucer, Lake Ridge Va.
- Monday Night Net: 2100 147.24 with  
224.78 Link Repeater on 147.24 MHZ
- Repeater: 444.90 MHz and 224.780 MHz,  
Packet LAN on 145.07
- Information: Jim Steams - KC4ZHQ  
(703)670-3480

#### WWI Background:

The Woodbridge Wireless Inc. (WWI) has provided public service and emergency communications in Prince William County for over 20 years. We own, operate, and maintain three repeaters; have an impressive pool of FCC licensed volunteer operators and communication equipment; and now own an operational Communications Vehicle with a 7KW generator to power the communication systems. Ed, KJ4VG, who has been the driving force behind the "bus", set out to make this vision a reality in late 1992. It was envisioned that this vehicle would help meet our volunteer public service/emergency activities and obligations. Since November 1992, about twelve members of WWI, lead by KJ4VG, have pursued this project. Today, the bus is operational. Thanks to all who have participated or contributed, thus far. This vehicle has become a reality and a club asset.

The vehicle has HF, VHF, UHF, Cellular, Police, and Fire operating positions. The next planned additions will be installation of the DC power distribution bus with power supply/batteries and the Prince William Fire radio system in November of this year. The collapsible/folding antenna tower is scheduled for installation in April 95. In conclusion, the "bus", has become a major asset to the club. Besides the tangible things listed above, the bus has, and will continue to, provide a great public awareness of amateurs radio in community action and The

Woodbridge Wireless, Inc. ARC.

YOUR LICENSE IS A PRIVILEGE AND  
YOUR ULTIMATE RESPONSIBILITY IS  
EMERGENCY COMMUNICATIONS.

Support your local ARC and Repeater. Speaking of Repeaters - The "Ker-Chunker", Has a well developed mike button finger. Loves to hear the timer reset beep..... over and over and over.... Ker-Clunker spelling is not defined in any dictionary. Its self explanatory.

Article extracted in part from The Wireloose, Monthly Newsletter of WWI, contributing writers, Denis/KD4KXB and O.P./KF4TE

73 Jim/KC4ZHQ  
WWI FAR Rep

### Herndon Repeater Group

The fall been very busy for the Herndon Repeater Group and it's members. On September 10th, HRG conducted a fox hunt which started out from the grounds of the Northern Virginia Community College in Sterling. The hunt helped to keep HRG's skills honed in the event that our services are needed. Thanks to all who participated in an organized this event.

On Saturday, October 1st, HRG provided communications for the Annual Alzheimer's Foundation Memory Walk at Lake Fairfax Park in Reston, Virginia. Over 500 walkers participated in the event which was held at Lake Fairfax for the first time. The course covered 10k through Reston starting and ending at the park. HRG provided communications at the park, at all the rest stations along the course, and with mobile units, including David KD4YIJ who was bicycle mobile along the course. After the walk, HRG was invited to attend the Bar-B-Q lunch donated by another ham, Cleve WB3DFX, and his company. Great

*Continued on next page*



### Fauquier Amateur Radio Association

- Meeting: 7:30 pm, Second Tuesday of the month except July, August & December. Shadow Lawn Recreation Center, Warrenton VA. Next meeting — November 8.
- Breakfast: Last Sat. of month at Big Boy, Warrenton 7:30-9:00 am except November and December
- Net: Every Wednesday, 9:00 pm, 147.165 MHz Rptr
- Packet: FARA7 node 145.070 MHz with direct connect to FBBS9. FBBS9 Bulletin Board 145.090 MHz.
- Repeater: NZ4N/R 147.165 MHz (+0.600 MHz)
- Newsletter: Toroid, Monthly. (A complimentary issue is usually available from Warrenton Radio Shack.)
- Information: Neil, AB4YK, (703) 364 3861

The first meeting of the fall season was a presentation by Bill Mills, KC5PF, former FARA president. Bill covered two subjects. One related to amateur radio operations that he participated in during a just-completed three year tour of duty in Saudi Arabia. Among other things, Bill was an operator at the well known Dhahran DX station. His description of that station and its achievements was enlightening. The station takes its role as a DX station very seriously and their operators have won many honors and much recognition. The other part of Bill's address was a video tour of the TEN-TEC factory in Tennessee. Bill described how he maneuvered a recent vacation tour to include a visit to the factory. The trip that Bill and his XYL took just happened to include a drive to the Dolly Parton Parkway location of TEN TEC in Sevierville, TN. His tour of the factory resulted in a purchase of one of the few all American-built radio products available to the US amateur. Bill narrated a TEN-TEC video movie of that company's manufacturing operations. The video also contained information about TEN-TEC's marketing and product offerings including the new OMNI VI transceiver. TEN-

TEC produces their own plastic parts and winds their own transformers. In other words, TEN-TEC truly produces an all-American product. A most enjoyable evening was had by all.

It gives me pleasure to welcome new member, Rick Gale, N6TRE, to our club.

FAR members are welcome to join us at club meetings. The next one is — 7:30 pm, November 8, at Shadow Lawn Recreation Center in Warrenton. Club elections are scheduled for this meeting. Please note the next VE session, Wednesday, November 2 at the Quilter's Confectionery at the front of the Giant Shopping Center location on the by-pass in Warrenton.

Neil AB4YK.

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*HRG - Continued from page 38*

Bar-B-Q, Cleve! Thanks to all who participated: Mike N4FXP, Craig N4FSC, Mike KD4MTW, Bill W3EMH, Erica KD4ITT, Don KD4CHU, Donna KD4HAT, Mark KR4FH and especially to Nick KD6ADY who organized and coordinated HRG's activities. Great job, Nick!

Herndon Repeater Group's annual fall picnic was held on October 9th at Lake Fairfax Park. It was a day of good food, good friends and amateur radio. We had a good time as usual and we all make it home in time to catch the Redskins vs. Philadelphia game. Next month we will try to have some pictures of these events and information about upcoming events.

Remember, HRG's on-air meetings are held every Monday night at 9PM on the N4FSC repeater, 145.31-. All amateurs are always welcome and encouraged to check in to the net. Listen to the net for information on all HRG activities. If you are interested in being a net control operator, contact Terry, AB4UM on the repeater or via packet.

73, Mike KD4MTW



## Columbia Amateur Radio Association (CARA)

- Club meeting: 4th Tuesday of the month at 7:30 p.m., at the county's Howard Building on Court House Drive in Ellicott City.
- Net: 147.135 repeater at 8:30 p.m. each Tuesday except for meeting nights. Youth net: 147.135 repeater at 7:30 p.m. every Thursday.
- Repeaters: 147.735/147.135 (cross-linked to 222.32/223.92); 147.990/147.390 (direct dial 911); 222.32/223.92 (cross-linked to 147.735/147.135 and 443.275/448.275).
- CARA breakfast: 9:30 a.m. on the 2nd Saturday of each month. Contact Dionne Frank-KA3ZDL, (410)531-2933.
- Fox hunts: Bill Nesbitt-N30KI, (410)997-6062.
- Information: Bob Scarborough, Pres - KC3EV, (410)465-2421.

Leilani-N3OHG, thanks all the CARA members who came out to sell tickets at the Gaithersburg FARFest. Howard County ARES received a very nice letter of thanks for its help during the National Triathlon Championships held in Howard County in August.

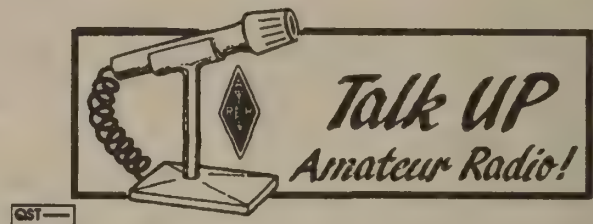
The youth group is in the process of planning a trip to the World Bank Radio Club in Washington to operate their station with the unique call sign of 4UIWB. Final details will be announced over the Youth Net. Ed-KE3MO, is heading up this effort.

John-W3GJN, and Ed-K3EF, are once again teaching the Novice/Tech license class that began on Oct. 20. The class is taught on Thursday nights from 7:00 to 9:00 p.m. at Centennial High School in Columbia. The class will last 10 weeks. For information, contact Ed at 465-0042.

CARA election of officers will take place at the November meeting.

PLEASE NOTE in the header information above that the regular Tuesday evening net has returned to the 147.135 repeater as of October 1st.

73's, Jean Williams-KB3AOT



## Prince George's County RACES/ARES, Inc.

- Meetings: 4th Thursday of each month
- Club Net: 147.150 primary. 145.350 secondary 9pm every Thursday
- Information: Mike Krakosky N3HIZ at (301) 868-6144

We have been busy with bad weather in the last couple of months. When the tornadoes hit the area last month, we were operating on three different channels. I would like to thank all the hams that help us with their reports. Again thanks to Jerry Bricker N3IOU and Dave Black WB3KXL for all their help. Also the T-MARC group for providing relief a OEP radio room; We had to move the nets and the meeting to Thursday nights because of my schedule. I hope that by the time this article is printed that we have raised the tower and installed the weather equipment. We still have to install about 4 more antenna's on the tower to complete the radio room. We are looking for Hams in the P.G. County area. October 15 & 16 is this year's dates for the Set Exercise, please listen to your radio's on that weekend. If anybody would like to help us please contact Mike Krakosky (301) 868-6144.



**Laurel Amateur Radio Club**  
A Volunteer Examiner Coordinator

- Meetings: 4th Wednesday of each month (except November & December) 7:30pm at 384 Main Street, Laurel, Md; Social: 2nd Wednesday of each month, except December (Call for directions)
- Nets: 1st & 3rd & 5th Wednesdays, 8:30 p.m. on
- 147.225(+600), no tone
- Mail: P.O. Box 3039, Laurel, MD 20709-0039
- Exams: 3rd Saturday of each month, 10:00am at Maryland
- Radio Center
- Information: Jim/WI3N (301)725-6829 or Pud/W3DQI (301) 498-6293

Twenty-one members of the Laurel ARC provided communications for the annual Pallotti Cross-Country Invitational meet on Sept. 24th at the Supplee Lane Park near Laurel. Pud/W3DQI coordinated the event and Michele/WK3X handled the "Net Control" duties. H.D./N3LFL and Matt/N3JMK provided the base station equipment and antennae. Over 1,000!!! runners participated from 50+ schools in the local area. Even though it was a beautiful day weather wise, some of the runners had problems with the course and several were "evac'd" with ankle, knee.. or other problems that occurred. The LARC team had the course well covered and reacted quickly to each incident. Howard/K3IOG, HD/N3LFL and Dick/N3MJA, used their mobile units to pick up runners who had problems. Phil Webb, Meet Director, stated that he could not have conducted the meet without the support of the LARC team who was critical to the success of the event.

The annual CROP Walk, a 10K charity event in the city of Laurel, was also supported by the club on Oct 2nd. By comparison with the Pallotti cross-country meet .... this was a "piece-of-cake", as the club members kept an

eye on the walkers to insure no one got lost on the course.

AL/W3YVQ, MDC Assistant Section Mgr/RACES coordinator and Mike/WAIQAA, MDC Section Emergency Coordinator, gave an interesting presentation at the monthly club meeting on the RACES and ARES organizations and the emergency communications support they provide in the local area. Many of the club members are getting involved!

Several club members will be operating a station at the Cedarville State Park on 15 Oct, in connection with the Boy Scout JOTA event.

The Laurel VE team was especially busy in September, conducting exams on 11 Sep at the FARFEST'94, and on 17 Sep at the Maryland Radio Center. At the FARFEST, 32 individuals were tested, 56 elements were administered and 20 individuals upgraded. On 17 Sep, 43 individuals were tested, 83 elements were administered and 27 individuals upgraded.

73 de Roger/N3MIJ

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8008 Shadow Oak Lane  
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## M A D R A S

The Maryland Apple Dumpling  
Radio Amateur Society, Inc.

- Meetings: 2nd and 4th Thursdays - 7:00 P.M.  
NBC Building - WKYS Conference Room  
4001 Nebraska Avenue, N.W. Washington,  
DC 20016
- Nets: 1st & 3rd Thursdays at 8:30 P.M. on  
145.45 MHz
- Repeaters: 444.100/449.100 MHz 145.45/  
144.85 MHz
- BBS: 145.030 MHz Call Sign: N3GKZ  
Alias: MADBBS (This is a closed BBS Sta-  
tion)
- Mailing: P.O. Box 2468 - Wheaton, Mary-  
land 20902
- Information: Hani Read - AA3EI (202) 223-  
3925) Larry Ziecheck - N3GKZ (301) 984-  
6112 Jean Blacik - N3PLC (301) 984-6112

MADRAS members would like to thank  
Quin Marsh N3KGM for the great job he has  
done as Net Coordinator for our non-meeting  
Thursday night net. He makes the net most  
interesting, with questions and bits of infor-  
mation on ham radio, rules and regulations,  
and items of interest in the ham community.  
We really appreciate having you as our net  
coordinator.

John Krell WB3CXW gave an interesting  
talk on Repeater Ownership at one of our  
September meetings. John is with the Laurel  
club and you can see him on the 3rd Saturday  
of the month administering the exams at  
Maryland Radio Center. Thanks, John, we  
all enjoyed your visit to our club and were  
most impressed with your talk.

Happy Thanksgiving !!!!  
73's .... Jean - N3PLC

**BE A KNOW IT ALL!**  
**READ AUTO-CALL**

## Prince George's Wireless Association

- Meetings: First working Tuesday of each  
month, 7:00 P.M.: Americas Red Cross Bldg.;  
6206 Belcrest Rd. Hyattsville, MD 20732
- Club station: K3CE7
- Mailing: 4109 Kennedy St., Hyattsville,  
MD 20781
- Information: Frank Holton - WA3ZMW,  
(301)927-1245

PGWA held it's regular monthly meet-  
ing on Tuesday, Sept. 6th, Frank, WA3ZMW  
had sent out a meeting notice to all members a  
few days prior to the meeting. The attendance  
was fair and we are hoping next month will be  
even better, Those that didn't attend missed a  
chance to construct a J-Pole Antenna.

Dave Black - WB3KXL brought the  
diagrams, material and tools to build copper  
tubing and coaxial J-Pole Antennas for VHF.  
Dave made the meeting so enjoyable. We turned  
the meeting table into a work bench and every-  
one had a ball. Everyone didn't get to build  
their antenna but we intend to continue at the  
October meeting. Please come.

Our meeting, however, was clouded  
with sadness, We learned, earlier that same day  
that Hersch Dan Miller - W3SWD, our Club  
Secretary had become a silent key, Hersch had  
been a club member for many years and was  
one of the backbones of the club. He will be  
greatly missed as a friend and for all of his ac-  
complishments for PGWA. We would like to  
offer our deepest sympathies to his family.

PGWA is looking to bring more new  
members into our group. We have an HF sta-  
tions 2 VHF consoles and a Packet station. All  
of these are open for club members use. Please  
attend our next meeting and bring a friend.

73's from Ken Easton, N3HLY



### Green Mountain Repeater Association

- Meetings: Board of Directors, Last Monday of each Month.
- Repeaters: KD3VR-146.61 (Cheverly) K3GFX-146.88 (Greenbelt)
- Luncheon: First Saturday of each Month at the Fountain Cafe, in the Laurel Shopping Center Mall, U.S. Rt. 1 (Baltimore Ave) and Cherry Lane. Starts at 11:30 A.M.
- Mailing: GMRA P.O.Box 429, Riverdale, MD 20737
- Information: Boyd Nelson - KZ3Z (301) 434-0934

GMRA held it's regular luncheon social gathering on Saturday, Sept. 10 instead of the first Saturday of the month because it was the Labor Day weekend. There was a fantastic turnout of members, relatives and friends. In fact, Sue David, N3RWI, said she had counted as many as 39, I believe everyone enjoyed the get-together.

The next day on September 11th was the Ham Fest in Gaithersburg. C.T.David, K3GXF and his son Steve, N3GVK, who were both at the luncheon, who were planning to visit the

Hamfest and tailgate. Strangely enough, that wasn't to be. Around 6:00 A.M. that Sunday morning, C.T. had to be rushed to the Prince George's General Hospital with chest pains.

C.T. had to have angioplasty performed which was quite painful. After a week in the hospital, C.T. is now home recuperating. There were a lot of prayers said for C.T. by his many friends on the Repeaters. He has a terrific nurse (an angel of mercy) his loving wife Sue.

Even though he was in pain, C.T. urged his son Steve, N3GVK to go on to the Hamfest. Steve revealed to us what had happened to his Dad at Joe-KD3VR's tailgate station as we sat under the tarp top shelter on the side of the van. Yours truly was able to ride and spend time with Joe, KD3VR, his wife Alice, WB3AOA and their son J.P., KE3EU. Joe sets up a very impressive tailgate display. Thanks to Joe and Alice for their generosity,

Now we are anticipating an even larger turnout at the next luncheon October 1, 1994. Please come and wear your best smile.

73's from Ken Easton, N3HLY

## ELECTRONIC ONE-STOP

Crofton Station Shopping Center  
Rt. 424 & Rt. 3 - Crofton, Maryland

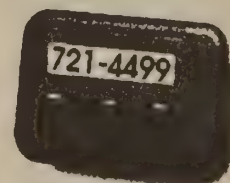
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## Foundation For Amateur Radio Scholarship Program



### AND THE WINNERS ARE..



#### **JOHN W. GORE MEMORIAL SCHOLARSHIP - \$1000**

**Brian D. Kuebert - N4UEZ - Washington, Virginia**

Brian attends the University of Virginia, majoring in Electrical Engineering. He is a member of the Trigon Engineering Society and active with Student Watch. This summer he worked at the UVA's information, technology, and communications department in the network operations division. He is active on 2m, attended the National Order of the Arrow Conference at Perdue University, and visited K2BSA/9, Boy Scouts' Amateur Radio Station.

#### **EDWIN S. VAN DEUSEN MEMORIAL SCHOLARSHIP - \$1000**

**David Frey - KA3VIH - Mercersburg, Pennsylvania**

David is a sophomore at the LeTourneau University, Eastern Texas, majoring in Electrical Engineering. He holds a General Class License and enjoys 20m SSB and 2m FM. He is vice president of the LeTourneau UARC which participated in Operation Cleansweep designed to rebuild and repair houses, put up antennas; and, started a repeater project. David's parents are dairy farmers and he says that this helped him to learn responsibility and the importance of initiative at an early age.



#### **QCWA MEMORIAL SCHOLARSHIP - \$650**

**David A. Case - KA1NCN- Hampton, Connecticut**

David attends Bard College in Annandale-on-Hudson, NY, pursuing Political Science and Electrical Engineering. He holds an Extra Class License and his interest in DXing and (contesting has brought him 307 DXCC. This summer he went on a solo DXpedition to St. Pierre et Miquelon and made worldwide contacts in CW and SSB. David has helped coordinate emergency procedures for charity bike/walk-a-thons, and at the age of 18 became a volunteer examiner.

#### **QCWA MEMORIAL SCHOLARSHIP - \$650**

**Jennifer Doerrie - KA5WMJ - Booker, Texas**

Jennifer graduated cum laude with a BA in Political Science and Spanish from Southwest Texas State University and is beginning post graduate work in Latin American Studies and International Law. She is a member of Top of the Panhandle ARC, ARES, Central States VHF Society and has interests in DXing, VHF, special events, emergency communications, and Field Day. She has received numerous awards for academic excellence in Political Science and spent the summer in Spain as a national winner of the Sigma Delta Pi Scholarship. Her father, mother, and sister are hams.







**QCWA MEMORIAL SCHOLARSHIP - \$650**

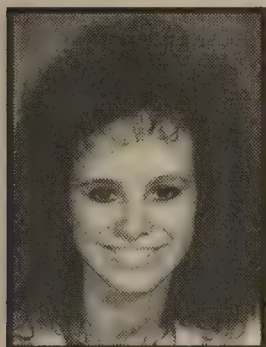
**Andrew S. Faiola - N3GLA - Silver Spring, Maryland**

Andre graduated from Washington University, St. Louis, with a BA in Economics and a Spanish minor, While in St. Louis he was a member of the university's amateur radio club, and also operated briefly while studying in Spain. He is a second year graduate student at Elliott School of International Affairs, George Washington University. He has taken internships at NASA, the Embassy of Mexico, and the Center for Strategic and International Studies.

**QCWA MEMORIAL SCHOLARSHIP - \$650**

**Kurt R. Fuller - N0ROP - Fenton, Missouri**

Kurt is a graduate of Eureka Sr, High School and will be attending Embry-Riddle Aeronautical University, Daytona Beach, Florida. He received his AR license in 92 and enjoys packet and using skills in St, Louis County RACES and the American Red Cross. Kurt is an active and licensed operator in the Civil Air Patrol. At EARU he will study to be an aerospace engineer.



**QCWA MEMORIAL SCHOLARSHIP - \$650**

**Stacy S. Jones - N5KRK - Harrison, Arizona**

Stacy has completed an Associate of Arts Degree and will be attending the University of Arkansas. She will be a Senior Computer Information Systems major, She says that one of her greatest accomplishments of her life was to earn an Advanced License at fourteen years of age and has been a member of ARRL since that time, Some of her activities include Majorettes, Homecoming Royalty, and Amateur Radio clubs.

**QCWA MEMORIAL SCHOLARSHIP - \$650**

**Joshua D. Hodges - KC4HTJ - Screven, Georgia**

Joshua graduated from Wayne County High School, Jessup, Georgia and is currently attending Vanderbilt University, Nashville, Tenn., majoring in Bio medical Engineering and Electrical Engineering. He and his father received a Technician AR License at the same time. He is a member of the Wireless Society, JAWS, the 10-10 International and enjoys 2 and 10 meter contacts Joshua's other interests are swimming, soccer, baseball, karate, and playing the guitar.



**QCWA MEMORIAL SCHOLARSHIP - \$650**

**Timothy D. Mah - N9JYM - Buffalo Grove, Illinois**

Timothy is a graduate of Buffalo Grove High School and will be a freshman at Northwestern University, Evanston, IL., He will pursue a double major in music education and prelaw and hopes to become a music director or an attorney. He holds a Technician Class License and is a member of the ECHO Repeater Group in Evanston, and has participated in ACL Fox Hunts. He is an member of the Chicago Youth Symphony Orchestra this past year.





**RALPH HASSINGLER QCWA CHARTER MEMBER MEMORIAL SCHOLARSHIP - \$650**

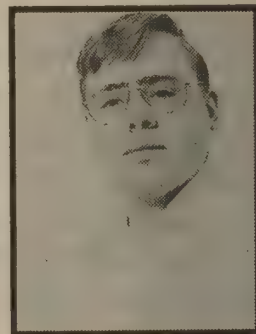
**Peter S. Wycoff - KA3WCA - Washington Crossing, Pennsylvania**

Peter is a sophomore and honors student at the University of Pittsburgh. He is majoring in Electrical Engineering. Peter is a member of the Delaware Valley RC, the Secretary of the Panther ARC, and holds an Extra Class License. In AR his interests are in the technical aspects, club participation, and operating on 20 and 17 meter bands. He also likes to participate in contests.

**MAX JACOBSON - JOHN KELLEHER FAMILY QCWA SCHOLARSHIP - \$650**

**Matthew J. Minney - N8PGI - Shock, West Virginia**

Matthew is a junior at Glenville State College, Glenville, West Virginia, majoring in Mathematics Education with a minor in Social Studies. Matt has an Extra Class License and is an accredited Volunteer Examiner and ARES/RACES member. He is most active on two meter voice and packet, and can be heard on HF, SSB and CW. He is a member of Pioneer AR Association.



**LEO MEYERSON FAMILY LIVING QCWA SCHOLARSHIP - \$650**

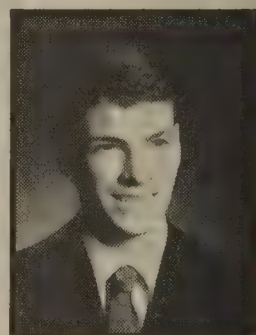
**Douglas P. Regulinski - N2QAN - Stony Brook, New York**

Doug will be a Freshman at Cornell University, Ithaca, NY., majoring in Plant Science emphasizing plant breeding and genetics. He upgraded his No-Code Tech License in less than one year to Extra. Doug is active on 160-10 meters doing SSB, DXing, contesting, and awards chasing with 100 DXCC. He is also an accredited VE at 18, member of Cornell ARC, and an Eagle Scout. He plays the cello and enjoys music and outside activities.

**RADIO CLUB OF AMERICA SCHOLARSHIP - \$500  
IN MEMORY OF JACK POPPELE**

**Richard E. Kutter - KB8LOE - New Madison, Ohio**

Richard is a Senior and Deans' List student at the University of Dayton, Dayton, Ohio, majoring in Electrical Engineering. He has an Advanced AR License and is president of the University of Dayton's ARC. He also belongs to Treaty City ARC and Dayton ARC. He operates on SSB and CW on 14, 21, and 28 MHz as well as FM and 2m packet. He is interested in linking ham radio equipment to computers to make it more accessible to handicapped individuals and mobile environments.



**RADIO CLUB OF AMERICA SCHOLARSHIP - \$500  
IN MEMORY OF J. ALAN BIGGS, K4AA**

**Robert D. Macedo - KD1CY - New Bedford, Maine**

Robert is a senior attending the University of Massachusetts, North Dartmouth, Maine. He is majoring in Electrical Engineering Technology. Robert holds an Advanced AR License and belongs to the Southeast Massachusetts ARA, Saratoga County RACES, and Massasolt ARA. Robert's interests are in DXing, Packet and Skywarn, in addition to, homebrewing equipment received from his uncle, Silent Key, W1WAY.







**RADIO CLUB OF AMERICA SCHOLARSHIP - \$500  
FROM THE LEO MEYERSON FUND**

**Riva Robeson - N9ESZ - Chicago, Illinois**

Riva is a sophomore at the University of Illinois, Chicago, majoring in Electrical Engineering. She holds a General Class License and earned her Novice at the age 9. Riva is a member of the Chicago ARC and participates in local auctions and annual hamfests, She has found amateur radio plays a key role in her science fair projects and has helped in enabling her to construct different complicated electrical circuits.

**RADIO CLUB OF AMERICA SCHOLARSHIP - \$500  
IN MEMORY OF DAVID TALLEY, W2PF**

**George P. Gumbrell - KA3RLZ - Gilbertsville, Pennsylvania**

George is a senior at Lehigh University, Bethlehem, Pa., majoring in Electrical Engineering and minoring in Psychology. He is a member of the LU Choir which recently toured Germany and Austria. He received his Novice License at 13 and presently holds a General Class License. He is a member of 10-10 International, ARES, RACES, and the Pottstown Amateur Repeater Team. He has participated in many service events, emergency communications, and serves as comm. coordinator for the New Hanover Township.



**RADIO CLUB OF AMERICA SCHOLARSHIP - \$500  
FROM THE RCA GRANT-IN-AID FUND**

**Taras B. Zima - KD6VWQ - Reno, Nevada**

Taras, born in the Ukraine, is a sophomore at the University of Nevada in Reno. He is majoring in Electrical Engineering. Taras holds an Extra Class License and belongs to the UB4LZ ARC, Sierra ARC, Golden Empire ARC, and the Sierra Nevada ARS. He is an avid contester with 250 countries credited. He enjoyed growing vegetables and fruit trees in his home country and says he continues to enjoy this on the other side of the earth, He is sponsored by Donald Taylor, KF7AM, who invited him to America in 1992.



**RICHARD G. CHICHESTER MEMORIAL SCHOLARSHIP - \$1000  
SPONSORED BY PATRICIA AND JACK CHICHESTER (W9AMF)**

**Steven D. Kraft - KE9RW - Menomonie, Wisconsin**

Steven is a senior at Gustavus Adolphus College, St. Peter, Mn., majoring in Computer Science. He holds an Advanced Class License and enjoys 2m and 73cm SSB while driving, Steven is contemplating to specialize in data communications or operating system design in his chosen field. He plans to get some work experience to help him make his final decision before graduate school.



**YOUNG LADIES' RADIO LEAGUE SCHOLARSHIP - \$1000**

**Stefnee Lindberg - N0ONP - Kansas City, Missouri**

Stefnee is a graduate of Raytown South High School, Mo., and will attend the University of Missouri, Columbia. She is majoring in Computer Engineering and selected this field due to her ham experience with computers. Stefnee holds an Advanced Class License, and has been a member of Raytown ARC, Kansas City Packet Group, Johnson County ARC, and Southside ARC. She is addicted to computers and her interests are in packet, internet, and conversation with her roommate via a serial Link.







#### **COLUMBIA AMATEUR RADIO CLUB SCHOLARSHIP - \$1000**

**Michael Brandt - KA3VPX - Hagerstown, Maryland**

Michael will attend Southern College, Collegedale, Tenn., majoring in General Physics. He holds an Advanced Class License and operates HF and 2 meters. Michael learned code at Columbia Union College, and has an interest in building antennas at various waves, dipoles, yagi, and quads. In addition, he likes to play the Baritone horn.

#### **BALTIMORE AMATEUR RADIO CLUB SCHOLARSHIP - \$1000**

**Edward J. Calhoon - N3GJI - Arnold, Maryland**

Edward, ("Ted"), will attend Salisbury State University, Md., having transitioned from the honors college at UMBC, Md. He will major in Business in the Perdue School at SSU. Ted enjoys his 2 meter base station, his new HT, and packet. His other hobbies include playing the guitar and saxophone, writing songs, and singing. His father, Ed, W3DEO, and his brother Mike, N3SNI, are also licensed.



#### **BALTIMORE AMATEUR RADIO CLUB SCHOLARSHIP - \$1000**

**Andrew M. Leeds - N3MCB - Finksburg, Maryland**

Andrew will be a freshman at Florida Institute of Technology, Melbourne, Florida, majoring in Electronic Engineering. He holds a Tech Plus Class License and has been a member of Carroll Co. ARC serving on the Board of Directors, club station manager, and repeater control op. He also belongs to the Hanover Haming Association and the Baltimore RA Television Society.

#### **BALTIMORE AMATEUR RADIO CLUB SCHOLARSHIP - \$1000**

**Andrew Guenther - N3NRP - Leonardtown, Maryland**

Andrew is a junior at the University of Md, College Park, majoring in Mechanical Engineering. He has a Technician Class License, and has served as the president and treasurer of the University of Md. ARC. He is interested in amateur satellite communications and radiodirection finding. His other interests are inventing, writing, camping spelunking, and scuba diving.

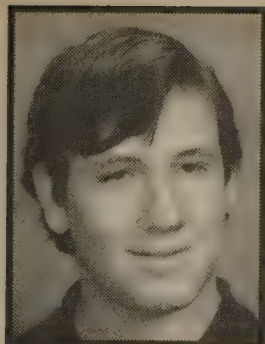


#### **BALTIMORE AMATEUR RADIO CLUB SCHOLARSHIP - \$1000**

**Christina Kirk - N3RFI - Rising Sun, Maryland**

Christina is a senior at the University of Maryland majoring in Physics. She is a Midshipman 1/C at the George Washington University, NROTC Unit. Christina is a member of the Green Mt. RA, Chesapeake Bay RA, and the vice president of the University of Md. ARC. She participated as a bicycle mobile at a 5k race; and, helps to run feed line and mount antennas for the club. Her love of AR comes from her father, N3KNI, and her mother, N3LTW.





**RALPH V. "ANDY" ANDERSON, K0NL, SCHOLARSHIP - \$1000**

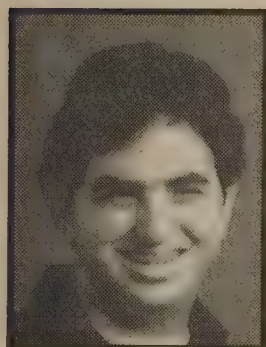
**Patrick J. Garmoe - AA0QI - Glenwood, Iowa**

Patrick just graduated from Glenwood Community High School, Iowa, and will be entering Creighton University, Omaha, Nebraska. He will pursue the Journalism and Social Worker field of study. Patrick has an Extra Class License and has joined the Belevue ARC and Heartland ARC. He enjoys CW and SSB, and is grateful to all the hams who helped him set up his station as he moved through the states. His interests are chess, reading, and biking.

**DADE RADIO CLUB TROPICAL HAMBOREE SCHOLARSHIP - \$1000**

**Gregory G. Bramer - KD4HFT - Port St Lucie, Florida**

Gregory is a senior at Indian River Community College, Stuart, Florida, majoring in Computer Electronics. He holds a Technician Plus License and operates on 2 meters. He has an interest in computer engineering and design, music, and mechanics. For his endless encouragement and support, Greg would like to dedicate this scholarship to his father, W2HZ.



**DADE RADIO CLUB TROPICAL HAMBOREE SCHOLARSHIP - \$1000**

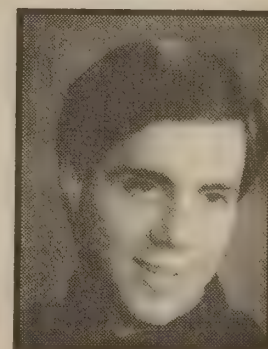
**Tony Drake - KC40BY - Bradenton, Florida**

Tony is a sophomore at Oglethorpe University, Atlanta, Ga., majoring in a five year Computer Engineering Program. He has a General Class License and has worked many DX stations on 10m as well as participated in many CW ragchews with a straight key. Tony enjoyed participating in Field Day and an airport disaster drill. He would like to spend some time designing computer devices for the handicapped.

**ROSE ELLEN BILL MEMORIAL SCHOLARSHIP - \$2000**

**Craig A. Gullickson - KC6CEX - Fresno, California**

Craig holds an Extra Class License and has completed two years at California Polytechnic State University, San Luis Obispo, Ca.. He is majoring in Electrical Engineering. Craig is a previous recipient of the Redington and QCWA Memorial Scholarships. His summer was spent doing research in antenna system and rotor research and development. Last summer he helped to organize and participate in his first DXpedition to Wake Island in the Mid-Pacific.



**VICTOR C. CLARK MEMORIAL SCHOLARSHIP - \$1000**

**SPONSORED BY THE VIENNA WIRELESS SOCIETY**

**Jensen Reitz Montambault - KC4GPZ - Earlysville, Virginia**

Jensen is a senior at Charlottesville, Va., majoring in Environmental Sciences and English. She has completed a four year program in three years. Jensen has a General Class License and operates on 2 meters and has an interest in personal histories of AR people. She is a member of YLRL, Society of Wireless Pioneers, AM Wireless Association, and the Old Buzzards RC. Her father and brother are hams and she wishes more women would join in this enjoyable hobby.





#### **FREDERICK AMATEUR RADIO CLUB SCHOLARSHIP - \$1000**

**Erin Roberts - KB3AYH - Knoxville, Maryland**

Erin graduated first in her class from Hagerstown Junior College, MD., with an Associates Degree in Communications. She plans to attend Bethany College, VA., and earn a BA Degree in Communications. Erin holds a Novice Class License and her three brothers, sister and mother are hams. She has participated in national 4-H events, secretary of the SGA, member of the National College Honor Society; and, has been a soccer coach and referee.

#### **10-10 INTERNATIONAL NET SCHOLARSHIP - \$1000**

**Chad M. Kwiatkowski - N8JHG - Saginaw, Michigan**

Chad is freshman at Central Michigan University, MI., majoring in Pre-Veterinary Medicine. He holds a Technical Plus License and enjoys operating on 10m SSB. He plays the trombone in the Pep, Concert, and Marching Bands, and enjoys playing baseball. Chad wishes to specialize in small animals and open his own office one day. His mother and father are also Amateurs.



#### **10-10 INTERNATIONAL NET SCHOLARSHIP - \$1000**

**Adam B. Schmouder - KA3ZJZ - Trout Run, Pennsylvania**

Adam graduated from Montoursville High School, PA., and will attend Pennsylvania State University, Wilkes Barre, PA., His will major in Engineering and his future plans are to work in the electronics field and in the advancement of technology. He holds an Extra Class License and operates on 10-80 meters, SSB and CW. Adam belongs to the West Branch ARC and is a member of the Trout Run Volunteer Fire Company.

#### **WARAC MEMORIAL SCHOLARSHIP - \$1000**

**SPONSORED BY THE WEST ALLIS RADIO AMATEUR CLUB**

**Robert J. Goemans - N9HAD - Madison, Wisconsin**

Robert is a Deans' List student. He is in his senior year at the University of Wisconsin in Madison, majoring in Physics. He holds an Advanced Class License and enjoys operating on 2m. Robert belongs to MARA, ARRL, and ARES. His future plans include teaching and research of physics.



#### **WARAC MEMORIAL SCHOLARSHIP - \$1000**

**SPONSORED BY THE WEST ALLIS RADIO AMATEUR CLUB**

**Karen M. Schneider - N9SVA - Appleton, Wisconsin**

Karen is a senior at the University of Wisconsin majoring in English Linguistics and Spanish. She is a former recipient of the WARC Scholarship and has made the Oshkosh Deans' List for the third time, Karen holds a Technician Plus Class License. She intends to continue in graduate school after graduation working for an MA in Spanish.





**WARAC MEMORIAL SCHOLARSHIP - \$1000**

**SPONSORED BY THE WEST ALLIS RADIO AMATEUR CLUB  
IN MEMORY OF MARVIN H. RUTISHAUSER, WB9PKL**

**Amy Tlachac - N9TLN - Wisconsin Rapids, Wisconsin**

Amy is a graduate of Lincoln High School and will be a freshman at the University of Wisconsin, Madison, majoring in Music Education. She holds a Technician Plus Class License and belongs to the Wisconsin Rapids ARC and the Midstate Repeater Association. Amy plays various instruments such as the piano, oboe, saxophone and English horn, and is a member of the jazz combo and polka band. She would like to teach school.

**KEVIN BARRY PERDUE MEMORIAL SCHOLARSHIP - \$1000**

**SPONSORED THE KAY (WT3P) AND CARTER (KD3AO) CRAIGIE**

**Shandi Haymore - KB7IYY - Spanish Fork, Utah**

Shandi is graduate of Spanish Fork High School, Utah, and will be a freshman at Brigham Young University, Provo, Utah, majoring in Music. She holds a Technician Class License, and her immediate and extended family are all hams. She has received many awards for music composition while in public school. Shandi wants to become a music educator. She loves to draw, paint and talk on 2 meters.



**SOUTH MILWAUKEE AMATEUR RADIO CLUB SCHOLARSHIP - \$500**

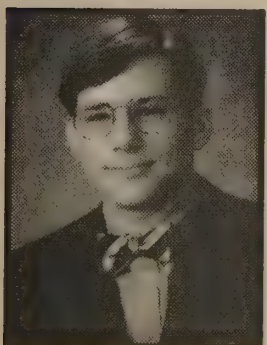
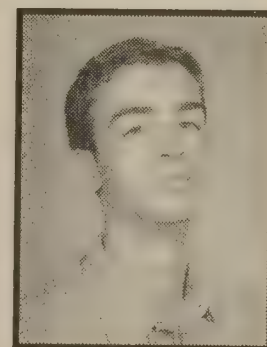
**Timothy J. Czerwonka - W09U - Madison, Wisconsin**

Timothy is a junior at the University of Wisconsin, Madison, majoring in Electrical and Computer Engineering. He holds an Extra Class License and serves as the president of the UW-Madison Badger ARS. Tim has set up the W9YT Packet radio to internet link and help with VE testing sessions. He enjoys bicycling, and building, and flying radio controlled model aircraft.

**SOUTH MILWAUKEE AMATEUR RADIO CLUB SCHOLARSHIP - \$500**

**Bernard A. Doehner - NU1S - Stevens Point, Wisconsin**

Bernard is attending Rochester Institute of Technology, NY, and is majoring in Electrical Engineering. After graduation he plans to study towards his MA Degree and work in the RF industry. Bernard holds an Extra Class License and operates on HF, 6m, 2m (voice/packet), and 70cm. He has worked service events as the Boston Marathon, St. Patrick's Day Parade; and, enjoys skiing, biking, chess, and model airplane flying.



**SOUTH MILWAUKEE AMATEUR RADIO CLUB SCHOLARSHIP - \$500**

**Jason G. Maxham - N9VAX - Appleton, Wisconsin**

Jason is a graduate of Appleton High School, Wisconsin and plans to attend the University of Wisconsin, Madison, majoring in Economics and Electrical Engineering. He holds a Technician Class License and is a member of the Fox Cities ARC. His interest is in computer applications and packet. Jason's hobbies are debate, tennis, and drama productions.





#### **SOUTH MILWAUKEE AMATEUR RADIO CLUB SCHOLARSHIP - \$500**

**Steven Miller - KB9DFE - Spooner, Wisconsin**

Steve is a recent graduate of Spooner High School, Wisconsin, and will be attending Milwaukee School of Engineering, majoring in Electrical Engineering. He holds an Advanced Class License and his interests include DXing, satellite tracking and operation, packet, and rag chewing. Steve served as past president of the Namekagon Valley Wireless Association and is a member of Washburn County RACES. He would like to be a member of a firm that specializes in reduction of electromagnetic interference.

#### **NANTICOKE AMATEUR RADIO CLUB SCHOLARSHIP - \$1000**

**Lawrence Baugh - AD4FX - Stafford, Virginia**

Lawrence is a graduate of North Stafford High, Virginia, and will be attending Harding University, Searcy, Arizona, majoring in Computer Science. He has an Extra Class License and enjoys digital modes such as packet, pactor, and RTTY, in addition to, DXing and contesting. He has worked 200 countries and confirmed 150 thus receiving the DXCC, WAS, and WAC awards. He was an Eagle Scout and served in the Explorer Unit and Civil Air Patrol.



#### **MURGAS AMATEUR RADIO CLUB SCHOLARSHIP - \$500**

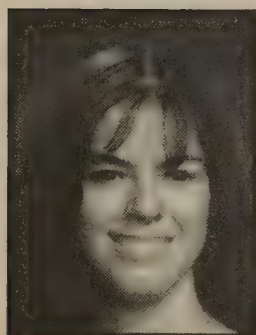
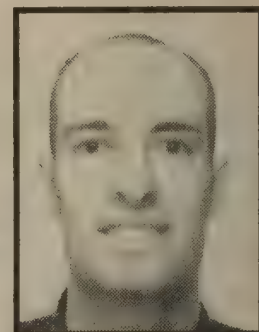
**Kresta L. French - N3NMG - Smithfield, Pennsylvania**

Kresta will be entering the university of Pittsburg, Pennsylvania, as a sophomore, majoring in both Business and Psychology. She was inducted into the Freshman Honor Society. Kresta holds a Technician Plus Class License and enjoys 2m packet and 440. Her father, N3FWN, mother, N3NME, and her brother, N3NMF, are hams. She belongs to the Pitt Panther ARC. Her future plans include becoming a lawyer.

#### **VIRGINIA BEACH HAMFEST SCHOLARSHIP - \$500**

**Eric J. Chapman - K04BS - Virginia Beach, Virginia**

Eric is a senior at Radford University, Virginia, majoring in Geography. He holds and Advanced Class License and enjoys operating SSB, FM, packet, RTTY, and AMTOR. Eric enjoys elmering others in both theory and code. He is a member of the Virginia Beach ARC, VBARC Youth Group, VA DX Century Club, and editor of the VADXCC Newsletter.



#### **VIRGINIA BEACH HAMFEST SCHOLARSHIP - \$500**

**Victoria L. Crawford - N4XDR - Virginia Beach, Virginia**

Victoria is a recent graduate of Kempsville High School, Virginia, earning an Advanced Studies Diploma. She will be attending Old Dominion University, Norfolk, Virginia, majoring in Pre-Pharmacy. Victoria holds a Technician Plus Class License, and is president of the VBAR Youth Group, elected board member of the VBARC, and a member of the VBAR Emergency Service. She has received junior and senior graduate awards in dancing and has earned her Gold and Silver Award in the Girl Scouts.





**VIRGINIA BEACH HAMFEST SCHOLARSHIP - \$500**

**Christopher Schaab - KD4NFW - Virginia Beach, Virginia**

Chris is entering his sophomore year at the West Virginia University, Morgantown, majoring in Electrical and Computer Engineering. He holds an Advanced Class License and enjoys operating on 2m FM, packet, HF, SSB. Chris belongs to the VA Beach ARC, VA Beach ARC Youth Group, and the WVA ARC. Chris would like to work in chip design for a computer or radio company. His hobby is model trains.

**VIRGINIA BEACH HAMFEST SCHOLARSHIP - \$500**

**Catherine L. Winfrey - N4MYF - Newport News, Virginia**

Catherine graduated from Warwick High School as valedictorian. She will attend Smith College, Northampton, Massachusetts, and pursue studies in anthropology and government. She received her Novice Class License at 7, her Technician at 8 and her General at 9 years old. Catherine earned her Worked All States certificate at 15 and enjoys DXing. She is a member of SPARK. Her hobbies include playing the flute, piccolo, field hockey, and singing.



**MARTIN COUNTY AR ASSOCIATION SCHOLARSHIP - \$1000**

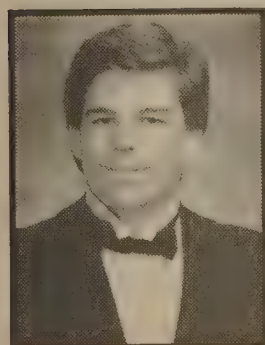
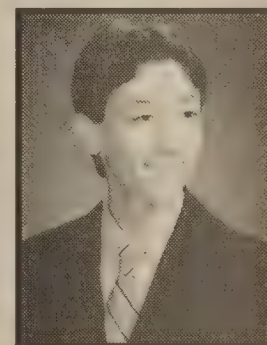
**Pamela C. Cooper - KC4OJM - Stuart, Florida**

Pamela attended Indian River community College and will be attending Florida Atlanta University, Boca Raton, Florida, majoring in Accounting. She holds a Technician Plus Class License and been the emergency communicator for the Martin County ARES/RACES, and shelter communicator during Hurricane Andrew. She enjoys 2 and 10 meters as well as participating in the special event station aboard the replica of Columbus' ship the Nina.

**EDMUND B. REDINGTON MEMORIAL SCHOLARSHIP - \$500**

**Michael Ambrose - KC1UK - Monroe, Connecticut**

Michael is entering his senior year at the University of New Haven, West Haven, CT. He is majoring in Electrical Engineering and has been continuously on the Deans' List. He has held an Advanced Class License since he was 12 years old. His hobbies include building and flying radio controlled airplanes, playing the drums, electric keyboard, piano, and guitar. His father, K1UQQ is also a ham.



**BALTIMORE RA TV SOCIETY MEMORIAL SCHOLARSHIP - \$1000**

**David MacCormack - N3BUX - Ellicott City, Maryland**

David graduated from Centennial High School, Maryland, and will be entering the University of Maryland, College Park, majoring in Engineering or Computer Science. David belongs to the Columbia ARC and holds a Technician Class License. His interests include music, both trumpet and guitar, and his favorite hobby is "bargain hunting" at local hamfests.





**BEATRICE CHAPMAN FAMILY MEMORIAL SCHOLARSHIP - \$500  
SPONSORED BY THE AUGUSTA AMATEUR RADIO ASSOCIATION**

**Jonathan B. Rines - KA1TDO - Woodland, Maine**

Jonathan is a sophomore and Dean's List student at the University of Maine, majoring in Business Administration. He holds an Extra Class License and enjoys CW, SSB, and packet. He helps in VE testing, and his spare time is spent reading or working with computers. Jonathan would like to be an entrepreneur in the retail field.

## **The 1994 Scholarship Winners**

Announcements of the 1995 awards will appear in the March or April issues of Auto-Call and in several major Amateur Radio publications and radio club newsletters. Watch for these announcements and help us reach deserving Amateurs who can benefit from the program.

Foundation administered scholarships are open to all Radio Amateurs meeting the qualifications and residence requirements of the various sponsors. Applicants must be licensed Radio Amateurs and presently enrolled or have been accepted for enrollment in an accredited university, college or technical school to pursue a full-time course of studies. In addition, several of the awards require endorsement by a member of an organization (such as QCWA or 10-10). Each applicant is considered for all of the scholarships for which they are qualified.

The Foundation funds four scholarships of its own and administers, without cost, other scholarships which are funded by organizations or individuals. Contributions to the general scholarship fund - in any amount, large or small - are welcomed to help continue this most worthwhile effort. The Foundation For Amateur Radio is a non-profit 501(c)(3) organization devoted exclusively to promoting the interests of Amateur Radio and those scientific, literary and educational pursuits that advance the purposes of the Amateur Radio Service. Contributions made to the Foundation are tax deductible to the extent permitted by the IRS.

**For Further information Contact:**

**FAR Scholarships  
6903 Rhode Island Avenue  
College Park, MD 20740**



## SOME MORE PACKET TID BITS

The following Packet Radio Nodes here in the upper Shenandoah Valley have recently been switched over in support of the SouthEast Digital Association Networks, "SEDAN" on 145.770Mhz

WA4FRB-7/FRVA Front Royal, Va. Formerly FRNET  
WA4FRB-6/MADVA Madison, VA. Formerly FMNET  
W3CSG -7/WINVA Winchester, Va. Formerly STP5

These three nodes have been switched from 145.730 Mhz to 145.770 Mhz, the "SEDAN" network frequency.

The "SEDAN" system is committed strictly to Emergency Services as 145.770 Mhz is a part of the nationwide keyboard to keyboard band-plan. It is not open to Packet BBS, IP or NOS stations. TCP/IP and keyboard traffic don't mix well.

The basic intent of the "SEDAN" 145.770 Mhz system is to be prepared for emergency traffic handling, and the relocation of health and welfare victims in the event of a disaster. Another purpose of the "SEDAN" is in conjunction with weather-watch programs in any area where serious weather conditions exist or threatens.

As the system grows, there are plans for 9600 baud "backbone" nodes on both VHF and UHF frequencies and later point-to-point trunks at 38,400 baud.

These notes and comments are from the SEDANewsLetter as well as the current Node map.

73 DE, Irv KD4BHV

The Shenandoah Valley Amateur Radio Club

See Next Page

The Foundation For Amateur Radio, Inc.



*Washington, DC*



## SEDAN USER & SYSOP GUIDELINES AND PRACTICES:

Most organizations have RULES to guide the conduct of the individuals that make up the body. Each time the organization grows larger, so does the responsibility of the members within the "body" that make up the organization.

The **SEDAN** is not a rule maker nor does it perform as "Packet-Police." **SEDAN** supports a set of **GUIDELINES & PRACTICES** that help make the

system useful as an Emergency and User network. These guidelines are in the form of an "agreement" among the 145.770 MHz node sysops and users.

These agreements are simple and not meant to be RULES, however we do hope that each system user and member will support the **GUIDELINES & PRACTICES** with a "common sense" approach.

### HERE ARE THE BASIC **SEDAN** "GUIDELINES AND PRACTICES:"

#### USERS:

- 1) Use of any full service BBS is not permitted under agreement with the coordinating committee of the States where **SEDAN** is established. Only personal mailboxes are used, and message content and size is maintained under 500 bytes or 80 columns wide and 7 lines. Mailbox space is limited to 128 Kbytes.
- 2) A Message should be of a personal nature. Messages that are bulletin or to "ALLUS" should be placed on a full service BBS on the full-service BBS frequencies. Users who use the **PAKET** terminal program should refrain from using the **PAKET** BBS, and use the mailbox that is burned into the EPROM of their TNC.
- 3) DX spotting traffic on 145.770 MHz is not permitted under agreement(s) within the States of coordination. TCP/IP and NOS stations should use those frequencies set aside for NOS use.
- 4) Prime-time is defined as 5 PM until 11 PM EST. This is a period when high keyboard traffic activity may be observed. It is the concern of the **SEDAN** sysop's that some users may find a need to transfer messages up to 1 Kb in length. Should this need arise, please observe the 5 PM to 11 PM time period and refrain from passing long files during this period. Maintain PACLen to 80 or less. It is our goal to provide a dependable means of Emergency and keyboard to keyboard communications. Long file transfers could impugn the use of the network, should an emergency request be called.
- 5) **BEACONS** are frowned on and tend to create excessive poop on the frequency. Users who are new to the frequency may wish to set the Beacon time to 255 or to the longest period between beacon as possible. After a few days of beacons, there should be no purpose to beacon as most users in the new users area will have observed his/her presence. Understanding the problem that beacons create can help one understand how they degrade through-put of the network.  
  
*If each station in an area that has 25 or 30 users were to beacon, and each beacon used 5 seconds time, then a period of more than THREE MINUTES could be used in beacon time alone. Coupled with the node updates to one another, this could cause additional tries between nodes resulting in more collision tries from nodes carrying through-traffic. To operate in the best interest of the **SEDAN** system, please set your beacons to 0 (zero) or OFF. This is a courtesy we offer to each other so that you may enjoy the same benefits as other users.*
- 6) Using the "TALK" or "CONVERSE" mode in the **SEDAN** node is for *Wx-Watch and Emergency Round-table use only*. The "TALK" mode of the X-1/2 node is similar to the CONVERSE mode and reflects the same problem associated with the CONVERSE mode. As you have read in all my books and articles, and I reiterate here:

**"The TALK Mode CAN, AND WILL, BRING A NETWORK TO ITS KNEES !"**

#### SYSOPS:

Should the problem at number 4) be observed, there may be a need to contact the network manager so that FRACK, and FRAME elements within the X-1/X-2 nodes may be set to limit the access and throughput of the system.

In a similar manner (as at # 6), should a problem arise where excessive or unnecessary use of the "TALK" feature of a node becomes abused, the sysop should take steps to turn OFF the "TALK" mode by entering the command state with the "MAnager" command and setting TALK - . The minus sign turns the feature OFF. A plus sign returns it to operation if needed for emergency work.

It is not the wish or desire of any **SEDAN** sysop to create any unfriendly act that would be considered adverse to our system. However, should the network become abused by a party or parties, then we could be forced to set the node(s) to decline access and send the offender out a phantom port.

This same "standard" applies to the operator who attempts to install another node on the system that is counter to the purpose of the **SEDAN**. I.e. An IP, or NOS station. TCP/IP and Keyboard traffic don't mix well.

I hope we never have to exercise any of the controls that limit access or use by anyone. Packet has many faces, and uses. *There are many other frequencies that support BBS use and forwarding. In addition, there is a large number of frequencies already supporting the DX spotting networks.*

As 145.770 MHz is a part of the nationwide keyboard to keyboard and emergency communications band-plan, we wish to maintain that same personality and integrity within the **SEDAN**.

The basic intent of the **SEDAN** 145.770 MHz System is to be prepared for emergency traffic handling, and the relocation of health and welfare victims in

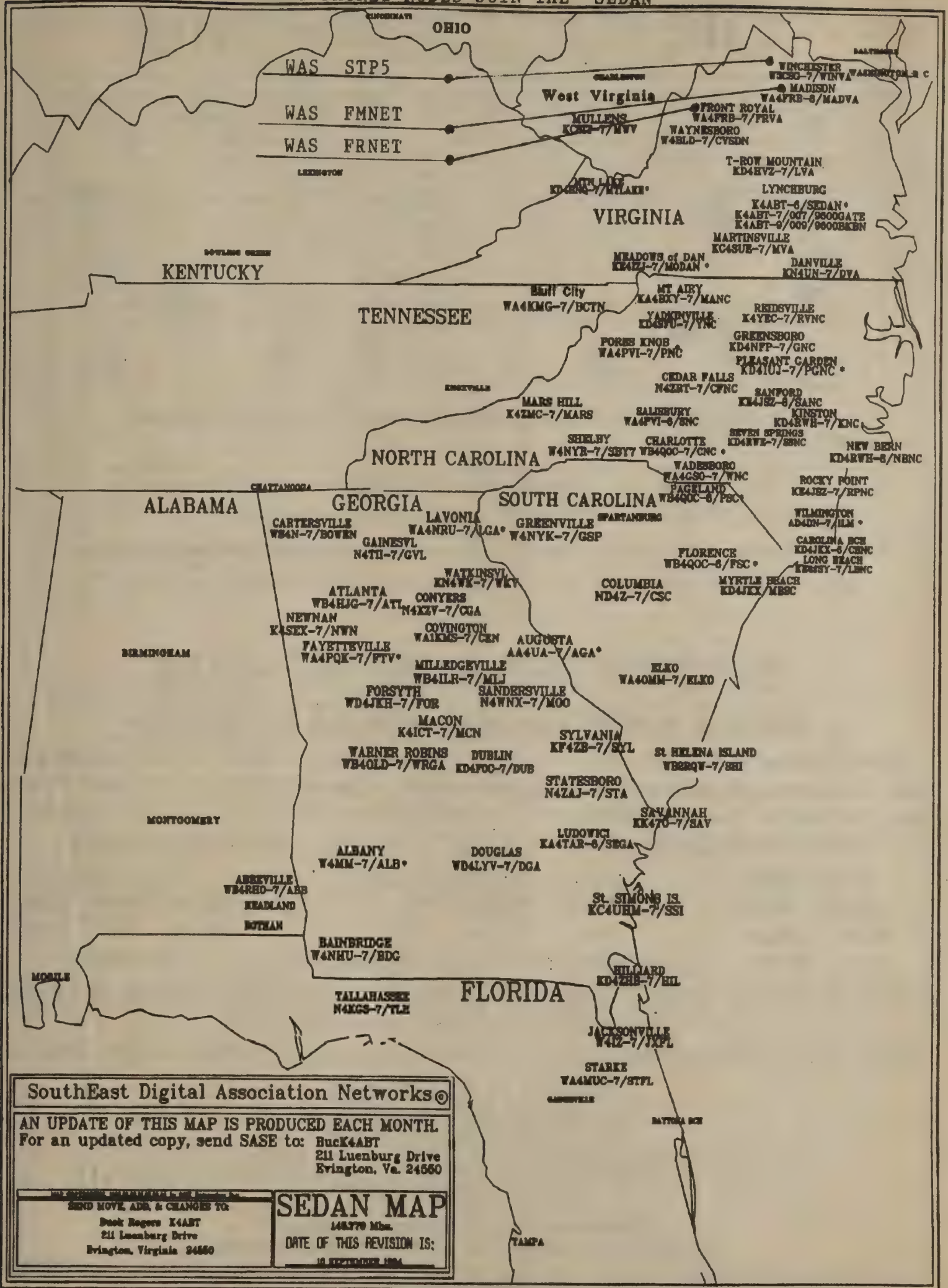
the event of (God Forbid) another hurricane Hugo, or any other danger that might threaten our friends. Another purpose of the **SEDAN** is in conjunction with weather-watch programs in any area where serious weather conditions exist or threatens. If there is no need for your participation, then please assume the role of an observer.

As we progress, **SEDAN** will be adding "BACKBONE" nodes at 9600 bauds on the VHF & UHF frequencies. Later we plan to add Point to point "TRUNKS" at 38,400 bauds. Your cooperation will help the sysops of the **SEDAN** to build a useful system that all Packet users can benefit from.

THANK YOU AND HAPPY PACKETING. 73 DE BUCK4ABT



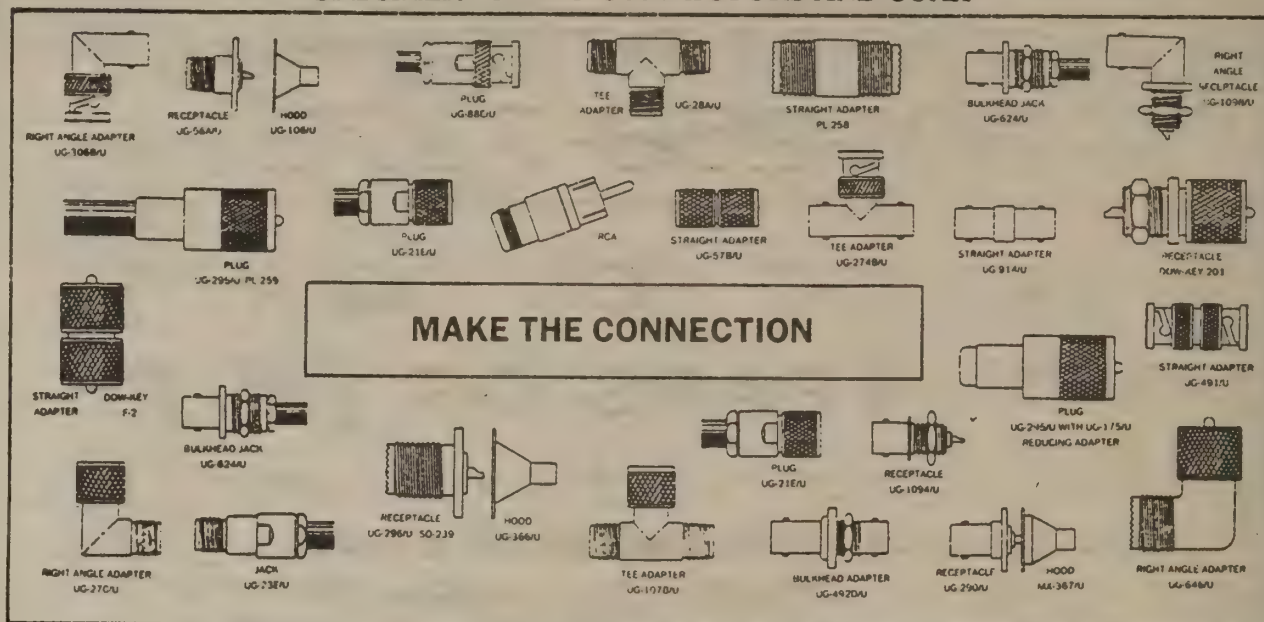
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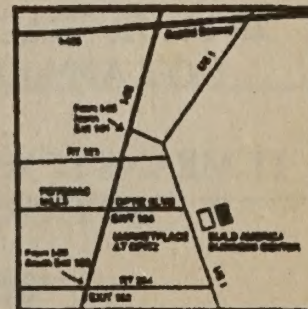
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### AUTO-CALL MAGAZINE STAFF

Editor..... Doug Allen, N3FHM  
(410) 437-6258

Circulation Manager..... John Swafford, W4HU  
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AUTO-CALL has a paid subscription of over 1,700 and a  
total circulation of over 2,000. Copies are sold at local  
stores and a number of complimentary and swap copies  
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6	7 Adams Co. DOS	8 Frederick Fauquier Leisure World Woodbridge	9 Pentagon S. Patuxent **FAR**	10 AMRAD MADRAS MT. Vernon N. VA QCWA 150	11 Alexandria S. Maryland Vienna	12 Stafford
13 MetroComm	14 Carroll Cnty PVRC	15 Antietam Arlington BRATS	16 Antietam Arlington BRATS	17 Anne Arundel QCWA 20	18 Rock Creek Shenandoah	19 Capitol City Stafford
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27	28	29 Columbia	30 QCWA 20			

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